

- :: N&O #16 :: -

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Numbers stations operated by North Korea have been monitored for decades. The activities of the stations have been reduced, compared with those in early 1980's.

The North Korean numbers stations in voice, which transmit five-digit figures, have currently three outlets. Of them, two are broadcast over Radio Pyongyang, a Korean-language service beamed to South Korea and Korean residents in Japan.

One opens with Red Flag Song on 621, 657, 684, 702, 720, 855, 3250 and 6400 kHz at 1500 (midnight Korea and Japan time). The Red Flag Song outlet broadcasts coded messages almost every day.

The other one starts with March of the Guerrilla Army on 729, 801, 1080, 3320 and 6250kHz also at 1500. The March of the Guerrilla Army

outlet transmits numbers and correspondents for specific agents or collaborators on fixed dates. For example, messages for the No. 101 are sent on every 10th and 12th of January, March, July and September, while messages for the No. 3166 are transmitted on every 13th and 14th of March, June, September and December. The messages of the second day transmission is a rebroadcast.

After coded message broadcasts end, Radio Pyongyang returns to a unified program.

The last outlet is not affiliated with Radio Pyongyang's service but opens with the same interval signal with that of Radio Pyongyang's external service -- an arranged version of Song of General Kim Il Sung -- using 4770 and 5870 kHz. The station plays Cantata to Marshal Kim Il Sung after the interval signal. The station has been monitored irregularly at 0400, 1000, 1200, 1400, 1700 or 2200. When there are no messages, the station broadcasts readings of essays or music played by Pochonbo Electronic Ensemble, Wangjaesan Light Music Troupe, Korean People's Army Concert Troupe, Mansudae Art Troupe and Pibada Opera Troupe. At 1230 on every 8th and 28th of March, June, September and December, the station plays music "requested by servicemen and workers." At 2200 on December 31st, February 15th and April 14th and at 1200 on January 1st, February 16th and April 15th, only music is played without announcement. February 16th is the birthday of North Korea's leader Kim Jong Il and April 15th is the birthday of the late North Korean President Kim Il Sung.

- Format of North Korean Numbers Stations

After opening music, a woman announcer calls out the numbers of agents for whom messages will be sent and the starting time of the messages. "During this broadcast, first a message for the No. 2883 will be sent, and then a message for the No. 692 will start from 1208, and a message for the No. 2185 will follow at 1214." A preamble is repeated twice. There is no such a preamble in the case of only one message and a woman announcer begins with like this: "A message for the No. 2833 will be sent. A message for the No. 2833 will be sent. A message for the No. 2833 will be sent. Count 21. Count 21. Text."

The voice then goes into the text of five-figure groups with a pause between the third and fourth digit like this: "374 79, 686 53, 468 80" After a message is finished, an announcement like this follows: "I'll repeat the message. A message for the No. 2833 will be sent. A message for the No. 2833 will be sent. Count 21. Count 21. Text." There is no pause between the third and fourth digit this time like this: "37479, 68653, 46880". A message ends with announcement of "That's all."

::: SUSPECTED SOUTH KOREAN NUMBERS STATIONS

Numbers stations believed to be operated by South Korea was first noted

in late 1970's. The purpose and the nature of the stations remain in a mystery. The stations appear sporadically on the hour or the half hour at night and early morning (Korea time) on 4500, 4600, 4940, 5450, 5715 or 6215 kHz. The stations start with a Korean song. Various songs have been used. At one case, Song of General Kim Il Sung was played. The names of recipients of messages is referred to such as the No. 008, and names of rivers and mountains in the Korean Peninsula. Texts are either four-figure or five-figure groups. The stations occasionally end after only playing music.

- Format of South Korean Numbers Stations

The typical format of the stations is as follows: "The No. 3825, the No. 3825. Please receive a message. Count 64. Text." A woman announcer then goes into the text with a pause between the third and fourth in the case of five digits and between the second and third in the case of four digits.

The text is repeated again without pause between digits, saying "I'll repeat the message again." The broadcast ends with such an announcement like this: "That's all. Thank you."

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Rimantas Pleikys <riplei@rc.lrs.lt> supplied an overview of the three known standard voice message formats of the Russian military HF channel marker stations (Enigma XX - The Pip, XB - The Buzzer, "R") - all live, non-computerized, mostly male voices, repeated twice, in Russian language, real examples:

::: XX (The Pip), 3757//5448 kHz, Rostov-Volgograd area (?),
at different times.

In Russian	English translation
----- "Dlia 854 032 471 331 629 008 Kak slyshno? Priyom."	----- "For 854 032 471 331 629 008 How can you read me? Reception."

::: "R", Izhevsk, Navy, 3194//3321//4325 kHz, usually on the hour,
regular schedules.

In Russian	English translation
----- "Rotor-35, ya - Plavets-41. Reskript: 22 80 39 90 Moskovskoye vremia 0 chasov, 2 minuty. Priyom."	----- "Rotor-35, I am Plavets-41. Rescript: 22 80 39 90 Moscow time 0 hours, 2 minutes. Reception."

::: XB (The Buzzer), 4625 kHz, Moscow area, extremely rare:

In Russian	English translation
-----	-----
"Ya - UVB-76.	"I am UVB-76.
18008	18008
Bromal: Boris, Roman, Olga (...)	Bromal: Boris, Roman, Olga (...)
742 799 14"	742 799 14"

The purpose of the control messages is to check a readiness of operators at the receiving (network) stations. The received message content, or a special answering message, must be repeated back on the return link - HF, terrestrial MWL, telephone line and/or satellite link. In the cases of XX (The Pip) and "R", the final message word "Priyom" ("Reception") means that the station is waiting for the quick answer.

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* FAPSI intercepts *

Freq.	UTC	link	to
-----	----	-----	-----
10328	1525	00116	BPA
11460	1641	60047	URO
11460	1620	60047	URO
11527	1612	?	
12176	1315	00052	NXQ
12187	1420	70004	NOB
12197	1620	?	DCW link id is possibly 60047 if so, then URO is the other end
12239	1500	00030	RGA
13371	1750	00190	POU
13452	2239	00127	JMS
13556	2008	00117	HZW
14434	1745	00178	KRN
14731	1515	00116	BPA
14843	2230	00127	JMS
14860	1000	00079	UGO
14941	1808	00139	WNY
14980	1310	00070	RAU repeated on 12180
14980	1310	00117	HZW
15904	1132	70004	NOB
16023	1412	00127	PSN
16218	2000	00117	HZW
16223	0930	40034	UXW

16257	0835	90051	RPA
16277.3	1554	60069	
16302	0930	00079	UGO
17416	1735	00178	KRN repeated on 14434
17430	0540	30044	
17460	0930	10075	
17463	1753	10163	UDZ27
17470	0520	40078	
17473	0915	10163	UDZ27
17473	0940	10163	UDZ27
17475	0840	80038	RPO
18209.9	1607	00149	DZR
18247	0950	10075	
18332	0820	10042	
18332	0759	10042	
18620	0940	00079	UGO
18725	0820	80038	RPO
19088	1800	00139	WNY repeated on 14941
19415	1005	50002	CAZ
20277	0630	00098	VTX
20694	0820	80038	RPO
22880	0940	00079	UGO
23130	0710	60069	

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* VOICE STATIONS *

::: NEW(?) CZECH STATION

Station characteristics:

- Frequency: 2136 kHz. Also reported on //1122 kHz
- Time: 0700 UTC (Saturdays and Sundays only)
- Callup: 9 tones callup + message numbers, e.g. 'message 20-29'

Additional info is more than welcome!!!

::: The Pip [XX]

July 21, 19:30-22:13 UTC, The Pip, 3757//5448 kHz!

July 21, 22:13 UTC, The Pip, message: "Dlia [For] - six 3-figure groups - Kak slyshno? [How can you read me?]- Priyom [Reception]; 1 repeat; in Russian; live male voice.

<info: Rimantas Pleikys>

::: 3-TONE ODDITY [G04] analysis <Hans-Friedrich Dumrese>

04.07.99 2005Z 5.680 kHz
2035Z 5.580 kHz

Message : 65785 32587 96321 45212 95432 75210 63210 08200 95457 36545
36545 95457 32125 00145 95458 75236 98545 72324 96522 75214
95542 30258 95454 75454

= 24 groups

Analysis: Frequent groups : 36545 2x
95457 2x

First two figures :		Last three figures:
00145		32125
08200		00145
30258		08200
32125		63210
587		75
36545 2x		45212
45212		75214
63210		75236
65785		30258
72324		96321
75210		72324
214		95432
236		75454
454		95
95432		95457 2x
454		95458
457 2x		96522
458		95542
542		36545 2x
96321		98
522		32587
98545		65785

History : Sommer 2005 2035
Winter 2105 2135

01/96 3227 3127
02/96 3409 3309
03/96 3419 3319
04/96 4581 4481
05/96 4165 4065
06/96 4340 4240
07/96 3935 3835
08/96 4165 4065
09/96 3930 3830
10/96 3280 3180

11/96	3270	3170
12/96	3285	3185
01/97	3230	3130
02/97	3245	3145
03/97	3275	3175
04/97	3936	3836
05/97	4245	4145
06/97	4376	4276
07/97	3930	3830
08/97	3935	3835
09/97	3915	3815
10/97	3315	3215
11/97	3265	3165
12/97	3255	3155
01/98	3255	3155
02/98	3265	3165
03/98	4435	4335
04/98	4745	4645
05/98	5410	5310
06/98	5730	5630
07/98	5840	5740
08/98	5755	5655
09/98	5310	5210
10/98	4685	4585
11/98	3940	3840
12/98	3380	3280
01/99	3415	3315
02/99	3905	3805
03/99	4520	4420
04/99	5310	5210
05/99	5570	5470
06/99	5720	5620
07/99	5680	5580

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★ INTELLIGENCE NEWS ★

::: CHINA TO BUILD NEW COMMUNICATIONS SPY BASE IN CUBA

The recent meeting between China's Minister of Defense Chi Haotian and his Cuban counterpart Raul Castro, has led to a joint military agreement that threatens the United States, the Orlando Sentinel reports. China has agreed to build a new electronic spying facility and modernize Cuba's satellite tracking base at Jaruco, Cuba. The facility neighbors the large Russian-manned signal intelligence complex at Lourdes, which can monitor U.S. civilian and military telecommunications in an area that covers from California to Europe. Under the agreement, the Chinese will also modernize Castro's

telecommunications monitoring base in Havana.

<source: China Reform Monitor No. 201, May 11, 1999
American Foreign Policy Council, Washington, DC>

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★ LOGS SECTION ★

2844.0 E10 YHF 2 msgs : 60 SVYBD 67 ZRCJO USB 2330 21/07/1999 Wed (GG)
2844.0 E10 YHF1 USB 0000 07/07/1999 Wed (GG)
2844.0 E10a YHF2 USB 0000 18/07/1999 Sun (GG)
2844.0 E10a YHF1 USB 0000 29/07/1999 Thu (GG)
3025.0 M8a ID 91021 02093 45691 CW 1000 03/07/1999 Sat (MS)
3025.0 M8a ID 22901 53003 11712 CW 1000 06/07/1999 Tue (MS)
3150.0 E10 PCD 78 ??SBZ USB 2300 06/07/1999 Tue (GG)
3150.0 E10 PCD 78 N?SCZ USB 2300 12/07/1999 Mon (GG)
3150.0 E10 probably PCD USB 2300 01/07/1999 Thu (GG)
3150.0 E10 PCD USB 2300 21/07/1999 Wed (GG)
3150.0 E10a PCD2 USB 2330 12/07/1999 Mon (GG)
3150.0 E10a PCD2 USB 2330 19/07/1999 Mon (GG)
3150.0 E10a PCD2 USB 2330 21/07/1999 Wed (GG)
3244.0 M8a UNCOPIABLE, HVY QRM AND WEAK SIGNAL CW 1008
03/07/1999 Sat (MS)
3245.0 V2a rptg 88833 54612 33261 AM 0200 18/07/1999 Sun (JM4)
3292.0 V2a weak AM 0200 27/07/1999 Tue (JM4)
3292.0 V2a rptg 48663 22653 46051 AM 0200 06/07/1999 Tue (JM4)
3292.3 V2a rptg 09951 41582 33262 AM 0200 20/07/1999 Tue (JM4)
3389.0 V2a in progress AM 0100 27/07/1999 Tue (JM4)
3389.5 V2a rptg 09951 41582 33262 AM 0100 20/07/1999 Tue (JM4)
3640.0 E10a CI02 USB 2245 21/07/1999 Wed (GG)
3640.0 E10a CI02
3640.0 E10a CI02 USB 0045 21/07/1999 Wed (GG)
3640.0 E10a CI02 USB 0045 18/07/1999 Sun (GG)
3640.0 E10a CI02 USB 2345 06/07/1999 Tue (GG)
3640.0 E10a CI02 USB 2245 06/07/1999 Tue (GG)
3757 The Pip Russian live male voice 1930 21/07/1999 Wed (RP)
3757 The Pip Russian live male voice 21/07/1999
3757 XX YL voice in Russian USB 2210 26/07/1999 Mon (RP)
3757 XX YL voice message in Russian USB 25/07/1999 Sun (RP)
3840.0 E10 YHF 2 msgs : 60 SVYBD 67 ZRCJO USB 2330 21/07/1999 Wed (GG)
3840.0 E10 YHF 74 CTEAS USB 2300 12/07/1999 Mon (GG)
3840.0 E10 YHF 1(6?) DJ?DA weak USB 2200 22/07/1999 Thu (GG)
3840.0 E10 YHF1 USB 0000 22/07/1999 Thu (GG)
3840.0 E10 YHF ?7 ?Z?U? USB 2230 21/07/1999 Wed (GG)
3840.0 E10 YHF2 USB 0000 20/07/1999 Tue (GG)
3840.0 E10 YHF USB 1930 08/07/1999 Thu (GG)
3840.0 E10 YHF too weak to copy USB 2200 21/07/1999 Wed (GG)

3840.0 E10 YHF 67 NNFUO USB 2230 12/07/1999 Mon (GG)
3840.0 E10 YHF1 USB 0000 07/07/1999 Wed (GG)
3840.0 E10 YHF 74 CTHAS USB 2300 21/07/1999 Wed (GG)
3840.0 E10a YHF2 USB 2130 11/07/1999 Sun (GG)
3840.0 E10a YHF2 USB 0000 18/07/1999 Sun (GG)
3840.0 E10a YHF2 USB 2130 21/07/1999 Wed (GG)
3840.0 E10a YHF1 USB 0000 29/07/1999 Thu (GG)
3926.0 M8a ID 90022 62731 47.12 - VERY WEAK CW 1000 04/07/1999 Sun (MS)
3926.0 M8a ID 95761 61911 - IN PROGRESS - CW 1003 12/07/1999 Mon (MS)
3926.0 M8a ID 22902 53192 12111 CW 1000 07/07/1999 Wed (MS)
3926.0 M8a ID 90023 83941 94852 - rpt of 0300Z on 4027 CW 0400
06/07/1999 Tue (MS)
3926.0 M8a ID 22902 53192 12111 CW 1000 07/07/1999 Wed (MS)
3927.0 V2a unreadable due to ham QRM AM 0100 11/07/1999 Sun (JM4)
4016.0 M8 Cuban cut # stn w/ 5F msg CW 0420 15/07/1999 Thu (TS)
4016.0 M8a ID 38631 97182 CW 0211 08/07/1999 Thu (MS)
4016.0 M8a ID 58143 26611 CW 0308 05/07/1999 Mon (MS)
4016.0 M8a ID 67922 39702 50.41 - rpt of 0204Z ON 5419 - VERY
WEAK SIGNAL CW 0300 03/07/1999 Sat (MS)
4016.5 M8a rptg RIMNN MMITN WTNWA CW 0300 03/07/1999 Sat (JM4)
4016.5 M8a rptg DTWID DAIAD W_____ CW 0300 10/07/1999 Sat (JM4)
4027.0 M8a ID 90021 52463 97211 CW 0300 04/07/1999 Sun (MS)
4027.0 M8a ID 90023 83941 94852 CW 0300 06/07/1999 Tue (MS)
4027.0 M8a ID 53491 00042 57993 CW 0600 06/07/1999 Tue (MS)
4027.5 M8a in progress CW 0300 20/07/1999 Tue (JM4)
4028.0 V2a ID - YL/SS - TOO WEAK FOR COPY
4028.0 V2a ID 61923 48663 78143 - YL/SS AM 1000 05/07/1999 Mon (MS)
4028.0 V2a ID 38521 11122 45482 - YL/SS AM 0600 08/07/1999 Thu (MS)
4028.0 V2a Missed callup. AM 0600 08/07/1999 Thu (JK)
4028.0 V2a AM 1000 05/07/1999 Mon (JK)
4034.0 M8a ID 78033 49893 94851 - rpt of 0300Z ON 4478 CW 0400
03/07/1999 Sat (MS)
4034.5 M8a rptg IGTDD UMGMD MUGWA CW 0400 03/07/1999 Sat (JM4)
4035.0 V2a ID 18442 77311 - YL/SS AM 1011 03/07/1999 Sat (MS)
4035.0 V2a ID 88831 18445 77312 - YL/SS AM 1000 10/07/1999 Sat (MS)
4035.5 M8a rptg WTARA MIAGD URIMA CW 0400 10/07/1999 Sat (JM4)
4165.0 E10a KPA2 USB 2315 05/07/1999 Mon (GG)
4165.0 E10a KPA2 (was still up at 2231) USB 2215 25/07/1999 Sun (GG)
4165.0 E10a KPA2 USB 2315 21/07/1999 Wed (GG)
4165.0 E10a KPA2 USB 0015 22/07/1999 Thu (GG)
4173.0 M8a ID 41411 35833 CW 0507 08/07/1999 Thu (MS)
4174.0 M8a (IN PROGRESS) CW 1027 07/07/1999 Wed (MS)
4174.0 M8a IN PROGRESS- CW 1027 07/07/1999 Wed (MS)
4174.0 V2 Spanish Lady YL/SS in progress, v. faint AM 0505
25/07/1999 Sun (SD)
4174.0 V2a ID 09533 73343 - YL/SS AM 0706 04/07/1999 Sun (MS)
4270 E10 YL\EE st. Utility-QRM 2000 27/07/1999 Tues (HP)
4270.0 E10 PCD 56 IIWGT USB 2230 22/07/1999 Thu (GG)

4270.0 E10 PCD 56 IIWGT USB 2230 21/07/1999 Wed (GG)
 4270.0 E10 PCD USB 2300 21/07/1999 Wed (GG)
 4270.0 E10 PCD heavily jammed USB 0000 18/07/1999 Sun (GG)
 4270.0 E10 PCD2 USB 2330 17/07/1999 Sat (GG)
 4270.0 E10 PCD 2 msgs: 42 ????? 77 NMXND USB 0030 17/07/1999 Sat (GG)
 4270.0 E10 PCD 78 N?SCZ USB 2300 12/07/1999 Mon (GG)
 4270.0 E10 PCD Too much QRN to copy USB 0000 22/07/1999 Thu (GG)
 4270.0 E10 probably PCD USB 2300 01/07/1999 Thu (GG)
 4270.0 E10 PCD2 USB 2330 06/07/1999 Tue (GG)
 4270.0 E10 PCD 67 ????? too weak to copy USB 0030 18/07/1999 Sun (GG)
 4270.0 E10 PCD 78 ??SBZ USB 2300 06/07/1999 Tue (GG)
 4270.0 E10 msgs: 45 YC??? 72 ????? PCD 0000 20/07/1999 Tue (GG)
 4270.0 E10a PCD2 USB 2330 19/07/1999 Mon (GG)
 4270.0 E10a PCD2 USB 2330 21/07/1999 Wed (GG)
 4270.0 E10a PCD2 USB 2330 12/07/1999 Mon (GG)
 4270.0 E10a PCD2 USB 2230 12/07/1999 Mon (GG)
 4329.0 V2a ID 27823 73313 - YL/SS AM 1004 11/07/1999 Sun (MS)
 4329.0 V2a rptg 15203 18443 51422 AM 0400 07/07/1999 Wed (JM4)
 4329.0 V2a ID 27822 73312 - YL/SS AM 1006 04/07/1999 Sun (MS)
 4360.0 E10a SYN2 USB 2245 10/07/1999 Sat (GG)
 4360.0 E10a SYN2 USB 2345 06/07/1999 Tue (GG)
 4461 E10 YL/EE 2000 21/07/1999 Wed (HP)
 4461 E10 YL/EE FTJ 2000 27/07/1999 Tues (HP)
 4461.0 E10 FTJ USB 2130 21/07/1999 Wed (GG)
 4461.0 E10 FTJ 91 MAFJY USB 2300 06/07/1999 Tue (GG)
 4461.0 E10 FTJ 65 XROL(W?) USB 0000 30/07/1999 Fri (GG)
 4461.0 E10 FTJ USB 0000 29/07/1999 Thu (GG)
 4461.0 E10 FTJ 51 HKFJH USB 2200 25/07/1999 Sun (GG)
 4461.0 E10 msg in progress USB 2305 19/07/1999 Mon (BA)
 4461.0 E10 FTJ 65 ERADP USB 0000 22/07/1999 Thu (GG)
 4461.0 E10 FTJ 12? DJC?? USB 2300 21/07/1999 Wed (GG)
 4461.0 E10 FTJ 7? XN??J USB 2200 04/07/1999 Sun (GG)
 4461.0 E10 FTJ 74 XNVXJ USB 2200 01/07/1999 Thu (GG)
 4461.0 E10 RAYYM FTJ 2200 21/07/1999 Wed (GG)
 4461.0 E10 FTJ2 USB 0000 07/07/1999 Wed (GG)
 4461.0 E10 FTJ 65 XRADP USB 0000 20/07/1999 Tue (GG)
 4461.0 E10 FTJ 91 MAFJY USB 2300 01/07/1999 Thu (GG)
 4461.0 E10 FTJ 91 OICPW USB 2130 04/07/1999 Sun (GG)
 4461.0 E10 HKFJH FTJ 2200 22/07/1999 Thu (GG)
 4461.0 E10 FTJ 74 XN?XJ USB 2200 10/07/1999 Sat (GG)
 4461.0 E10 FTJ 91 MAFJY USB 2300 12/07/1999 Mon (GG)
 4461.0 E10 FTJ 65 XRADP USB 0000 13/07/1999 Tue (GG)
 4461.0 E10 in progress USB 0106 15/07/1999 Thu (GG)
 4461.0 E10 FTJ 65 XRADP USB 0000 18/07/1999 Sun (GG)
 4461.0 E10 74 FTJ TWCQ(J?) Heavy QRM+weak signal USB 0100
 18/07/1999 Sun (GG)
 4461.0 V2a ID 37971 27822 73312 - YL/SS - rpt of 1006Z on 4329
 AM 1100 04/07/1999 Sun (MS)

4461.0 V2a ID 87811 27823 73313 - YL/SS - rpt of 1004Z on 4329
 AM 1100 11/07/1999 Sun (MS)
 4463 E10 YL/EE FTJ 2030 27/07/1999 Tues (HP)
 4463.0 E10 FTJ 72 GGBKR USB 1930 08/07/1999 Thu (GG)
 4463.0 E10 FTJ USB 2230 22/07/1999 Thu (GG)
 4463.0 E10 FTJ 64 RFJVL USB 2230 21/07/1999 Wed (GG)
 4463.0 E10 FTJ 62 KZEIY USB 2230 12/07/1999 Mon (GG)
 4463.0 E10 FTJ USB 2200 04/07/1999 Sun (BA)
 4463.0 E10 in progress,very weak USB 1906 03/07/1999 Sat (BA)
 4463.0 E10 FTJ 64 RFJSQ USB 2230 06/07/1999 Tue (GG)
 4463.0 E10 in progress,heavily jammed USB 1905 07/07/1999 Wed (BA)
 4465.0 E10a MIW2 USB 2315 28/07/1999 Wed (GG)
 4470.0 V2a rptg 18441 94561 00101 AM 0400 02/07/1999 Fri (JM4)
 4478.0 M8a ID 78033 94851 - VERY WEAK SIGNAL CW 0300
 03/07/1999 Sat (MS)
 4478.0 M8a ID 22901 53003 11712 - rpt of 1000Z on 3025 CW 1100
 06/07/1999 Tue (MS)
 4478.5 M8a rptg WTARA MIAGD URIMA CW 0300 10/07/1999 Sat (JM4)
 4478.5 M8a rptg IGTDD UMGMD MUGWA CW 0300 03/07/1999 Sat (JM4)
 4479.0 V2a ? carrier up - no audio AM 0300 14/07/1999 Wed (JM4)
 4479.0 V2a rptg 15203 18443 51422 AM 0300 07/07/1999 Wed (JM4)
 4506.0 M8a ID 67923 50342 CW 0300 04/07/1999 Sun (MS)
 4506.5 M8a rptg RUAMA DGGGA AIWGA CW 0300 14/07/1999 Wed (JM4)
 4506.5 M8a in progress CW 0400 02/07/1999 Fri (JM4)
 4507.0 V2a ID 48662 18442 77311 - rpt of 1011Z on 4035 AM 1100
 03/07/1999 Sat (MS)
 4560 E10a YL/EE YHF2 end +03 min. 2000 27/07/1999 Tues (HP)
 4560.0 E10 msg in progress USB 2305 19/07/1999 Mon (BA)
 4560.0 E10 in progress,weak USB 1905 06/07/1999 Tue (BA)
 4560.0 E10 YHF 140 WCUBE USB 2330 17/07/1999 Sat (GG)
 4560.0 E10 YHF 2 msgs: 60 SVYBD 67 ZRCJO USB 2330 19/07/1999 Mon (GG)
 4560.0 E10 YHF 2 msgs : 60 SVYBD 67 ZRCJO USB 2330 21/07/1999 Wed (GG)
 4560.0 E10 in progress,weak USB 1905 01/07/1999 Thu (BA)
 4560.0 E10 YHF 74 CTEAS USB 2300 12/07/1999 Mon (GG)
 4560.0 E10 YHF USB 1930 08/07/1999 Thu (GG)
 4560.0 E10 YHF 70 NMODV USB 1900 08/07/1999 Thu (GG)
 4560.0 E10 YHF 140 WCUBE USB 2330 12/07/1999 Mon (GG)
 4560.0 E10 YHF 61 ?HURE USB 2300 01/07/1999 Thu (GG)
 4560.0 E10 in progress USB 2118 04/07/1999 Sun (GG)
 4560.0 E10 YHF USB 2300 06/07/1999 Tue (GG)
 4560.0 E10 64 RFJVL YHF 2230 22/07/1999 Thu (GG)
 4560.0 E10 YHF 2 msgs : 42 URUXL 14 XLKPQ USB 2330 06/07/1999 Tue (GG)
 4560.0 E10 YHF too weak to copy USB 2300 28/07/1999 Wed (GG)
 4560.0 E10 YHF 2 msgs : 60 SVYBD 67 ZRCJO USB 2330 28/07/1999 Wed (GG)
 4560.0 E10 YHF 2 msgs : 60 SVYBD 67 ZRCJO USB 2330 29/07/1999 Thu (GG)
 4560.0 E10a YHF2 USB 2000 11/07/1999 Sun (GG)
 4560.0 E10a SYN2 USB 2345 16/07/1999 Fri (GG)
 4625 XB still transmitting with background noise 2230 02/07/1999

Fri (RP)

4625 XB Buzz strong TX circuit 2100 01/07/1999 Thur (RP)

4625.0 The Buz Russian station uvb-76 01/071999 to 12/07/1999
01/07/1999 Thur (RP)

4665.0 E10a MIW2 USB 0015 22/07/1999 Thu (GG)

4665.0 E10a MIW2 USB 2215 25/07/1999 Sun (GG)

4665.0 E10a MIW2 USB 2115 27/07/1999 Tue (GG)

4665.0 E10a MIW2 USB 2215 21/07/1999 Wed (GG)

4665.0 E10a MIW2 USB 2315 21/07/1999 Wed (GG)

4880 E10 YL/EE 2000 27/07/1999 Tues (HP)

4880 E10 YL/EE 2000 21/07/1999 Wed (HP)

4880 E10 YL/EE ULX 2030 27/07/1999 Tues (HP)

4880.0 E10 "ULX" callsign USB 1900 06/07/1999 Tue (BA)

4880.0 E10 ULX 27 JHRIG USB 2130 21/07/1999 Wed (GG)

4880.0 E10 in progress,weak USB 1907 02/07/1999 Fri (BA)

4880.0 E10 ULX2 USB 2230 04/07/1999 Sun (GG)

4880.0 E10 ULX2 no msg USB 2200 04/07/1999 Sun (BA)

4880.0 E10 ULX 81 THMEM USB 1900 08/07/1999 Thu (GG)

4880.0 E10 ULX 89 HCTAG USB 2030 11/07/1999 Sun (GG)

4880.0 E10 ULX 56 RQDDY USB 1930 08/07/1999 Thu (GG)

4880.0 E10 ULX 121 EHAOL USB 2000 11/07/1999 Sun (GG)

4880.0 E10 ULX 76 YHMQP USB 0200 18/07/1999 Sun (GG)

4880.0 E10 ULX too much QRM to copy USB 0030 18/07/1999 Sun (GG)

4880.0 E10 ULX 68 PHVAM USB 0030 17/07/1999 Sat (GG)

4880.0 E10 "ULX2" no msg USB 2200 07/07/1999 Wed (BA)

4880.0 E10 ULX weak USB 2000 02/07/1999 Fri (BA)

4880.0 E10 ULX 77 YHMQP USB 0200 16/07/1999 Fri (GG)

4880.0 E10 in progress USB 2035 04/07/1999 Sun (GG)

4880.0 E10a ULX2 USB 0130 18/07/1999 Sun (GG)

4880.0 E10a ULX2 USB 2200 10/07/1999 Sat (GG)

4880.0 E10a ULX2 USB 2130 11/07/1999 Sun (GG)

4880.0 E10a ULX2 USB 2200 12/07/1999 Mon (GG)

4880.0 E10a ULX2 USB 0130 16/07/1999 Fri (GG)

4880.0 E10a ULX2 USB 2200 21/07/1999 Wed (GG)

4880.0 E10a ULX2 USB 2200 22/07/1999 Thu (GG)

4880.0 E10a ULX2 USB 2230 22/07/1999 Thu (GG)

4880.0 E10a ULX2 USB 2200 25/07/1999 Sun (GG)

4880.0 E10a ULX2 USB 2230 25/07/1999 Sun (GG)

4880.0 E10a ULX2 USB 2230 12/07/1999 Mon (GG)

4881.0 E10 ULX 2 msgs: 113 UYAIIF 29 MLTPB USB 0230 18/07/1999 Sun (GG)

4888 YL/GG 3/2F 1600 21/07/1999 Wed (HP)

5091 E10 YL/EE 2000 21/07/1999 Wed (HP)

5091.0 E10 JSR in progress USB 1815 07/07/1999 Wed (GG)

5091.0 E10 CIO 2 usb 2045 12/07/1999 Mon (SI)

5091.0 E10 JSR 2 msgs 38 RGNDW 102 AYOEM USB 1900 08/07/1999 Thu (GG)

5091.0 E10 in progress USB 2017 04/07/1999 Sun (GG)

5091.0 E10 JSR2 USB 2030 04/07/1999 Sun (GG)

5091.0 E10 JSR2 USB 2100 04/07/1999 Sun (GG)

5091.0 E10 JSR 19 CMZAK USB 2130 04/07/1999 Sun (GG)
 5091.0 E10 in progress,very weak USB 1905 07/07/1999 Wed (BA)
 5091.0 E10 JSR2 USB 2230 04/07/1999 Sun (GG)
 5091.0 E10 JSR USB 1830 07/07/1999 Wed (GG)
 5091.0 E10 in progress, weak,strong noise USB 1905 02/07/1999 Fri (BA)
 5091.0 E10 JSR very weak USB 2000 02/07/1999 Fri (BA)
 5091.0 E10 in progress,weak USB 1905 03/07/1999 Sat (BA)
 5091.0 E10 JSR -no number- 2 messages usb 1930 12/07/1999 Mon (SI)
 5091.0 E10 JSR 2 no msg usb 2030 12/07/1999 Mon (SI)
 5091.0 E10 JSR2 USB 2200 04/07/1999 Sun (GG)
 5091.0 E10 "JSR2" no msg USB 2200 07/07/1999 Wed (BA)
 5091.0 E10 JSR USB 2130 21/07/1999 Wed (GG)
 5091.0 E10 "JSR2" no msg,strong noise USB 1900 13/07/1999 Tue (BA)
 5091.0 E10 in progress USB 1735 15/07/1999 Thu (BA)
 5091.0 E10 JSR 2 msgs: 13 TZPTU 22 TSBCL (fast) USB 2130
 11/07/1999 Sun (GG)
 5091.0 E10a JSR2 USB 2030 11/07/1999 Sun (GG)
 5091.0 E10a JSR2 USB 2200 25/07/1999 Sun (GG)
 5091.0 E10a JSR2 USB 2230 22/07/1999 Thu (GG)
 5091.0 E10a JSR2 USB 2200 22/07/1999 Thu (GG)
 5091.0 E10a JSR2 USB 2230 21/07/1999 Wed (GG)
 5091.0 E10a JSR2 USB 2200 21/07/1999 Wed (GG)
 5091.0 E10a JSR2 USB 2230 12/07/1999 Mon (GG)
 5091.0 E10a JSR2 USB 2230 11/07/1999 Sun (GG)
 5091.0 E10a JSR2 USB 2230 10/07/1999 Sat (GG)
 5091.0 E10a JSR1 USB 1930 08/07/1999 Thu (GG)
 5091.0 E10a JSR1 USB 1930 08/07/1999 Thu (GG)
 5091.0 E10a JSR2 USB 2200 12/07/1999 Mon (GG)
 5091.0 E10a JSR2 USB 2100 11/07/1999 Sun (GG)
 5160.0 E10a CI02 USB 2245 10/07/1999 Sat (GG)
 5170.0 E10 CI0 2 no msg usb 1945 11/07/1999 Sun (SI)
 5170.0 E10 CI0 2 no msg USB 1945 07/07/1999 Wed (SI)
 5170.0 E10 CI02 USB 2045 04/07/1999 Sun (GG)
 5170.0 E10//6 repeating "CI0 2" no msg transmitted USB 1945
 06/07/1999 Tue (SI)
 5170.0 E10a CI02 USB 2345 06/07/1999 Tue (GG)
 5170.0 E10a CI02 USB 2345 21/07/1999 Wed (GG)
 5170.0 E10a CI02 USB 2245 21/07/1999 Wed (GG)
 5170.0 E10a CI02 USB 2245 21/07/1999 Wed (GG)
 5170.0 E10a CI02 USB 0045 21/07/1999 Wed (GG)
 5170.0 E10a CI02 USB 0045 21/07/1999 Wed (GG)
 5170.0 E10a CI02 USB 0045 18/07/1999 Sun (GG)
 5170.0 E10a CI02 USB 2045 11/07/1999 Sun (GG)
 5170.0 E10a CI02 USB 2245 06/07/1999 Tue (GG)
 5170.0 E10a CI02 USB 2245 12/07/1999 Mon (GG)
 5230.0 E10a SYN2 USB 2345 06/07/1999 Tue (GG)
 5230.0 E10a MIW2 USB 0015 30/07/1999 Fri (GG)
 5230.0 E10a MIW2 USB 2315 28/07/1999 Wed (GG)

5230.0 E10a MIW2 USB 2215 25/07/1999 Sun (GG)
5230.0 E10a MIW2 USB 0015 22/07/1999 Thu (GG)
5230.0 E10a MIW2 USB 2315 21/07/1999 Wed (GG)
5230.0 E10a MIW2 USB 2215 21/07/1999 Wed (GG)
5230.0 E10a MIW2 USB 2315 19/07/1999 Mon (GG)
5230.0 E10a SYN2 USB 2345 16/07/1999 Fri (GG)
5230.0 E10a SYN2 USB 2245 12/07/1999 Mon (GG)
5230.0 E10a VLB2 USB 2145 11/07/1999 Sun (GG)
5230.0 E10a SYN2 USB 2045 11/07/1999 Sun (GG)
5417.0 V2 Spanish Lady YL/SS too faint to hear id AM 0700
26/07/1999 Mon (SD)
5417.0 V2a ID 38523 90481 43571 - YL/SS AM 0700 12/07/1999 Mon (MS)
5419.0 M8a ID 39702 CW 0204 03/07/1999 Sat (MS)
5419.5 M8a i/p groups MWNA and UMIGA given during CW 0200
17/07/1999 Sat (JM4)
5422.0 E3 id 53361 USB 2200 04/07/1999 Sun (GG)
5435 E10 YL/EE temp. extr.utility-qrm(I=2) ex 5437? 2200
21/07/1999 Wed (HP)
5435 E10a YL/EE ART2 end +03 mni. sp. Utility-QRM (I=1)
2030 27/07/1999 Tues (HP)
5435.0 E10 ART 2 msgs: 87 WMYUL 29 ?FTLX USB 2200 12/07/1999 Mon (GG)
5435.0 E10 ART USB 2200 04/07/1999 Sun (GG)
5435.0 E10 ART 51 ?ZMJG USB 2230 04/07/1999 Sun (GG)
5435.0 E10 ART 2 msgs 87 WMYUL 29 KFTLX USB 2200 10/07/1999 Sat (GG)
5435.0 E10 ART 93 XAKWG USB 1930 08/07/1999 Thu (GG)
5435.0 E10 ART short msg 7x5LG USB 1800 07/07/1999 Wed (GG)
5435.0 E10 in progress USB 2234 06/07/1999 Tue (GG)
5435.0 E10 ART 19 RQJV? USB 2130 04/07/1999 Sun (GG)
5435.0 E10 ART 19 RQJVU USB 2130 11/07/1999 Sun (GG)
5435.0 E10 ART 60 OSO(D?)X USB 0130 18/07/1999 Sun (GG)
5435.0 E10 ART 20 ARJOK USB 2330 12/07/1999 Mon (GG)
5435.0 E10 ART heavy QRN USB 2230 05/07/1999 Mon (GG)
5435.0 E10 ART 10 BJBIZ USB 2000 11/07/1999 Sun (GG)
5435.0 E10 ART2 USB 0300 18/07/1999 Sun (JM4)
5435.0 E10 ART1 USB 2230 10/07/1999 Sat (GG)
5435.0 E10 ART 79 SDNCN USB 2200 25/07/1999 Sun (GG)
5435.0 E10 ART 2 msgs: 87 WMYUL 29 KFTLX USB 2200 22/07/1999 Thu (GG)
5435.0 E10 ART 2 msgs: 87 WM??? 29 KFTLX USB 2200 21/07/1999 Wed (GG)
5435.0 E10 ART 10 UIBYE USB 2130 21/07/1999 Wed (GG)
5435.0 E10 ART YACUO USB 2030 11/07/1999 Sun (GG)
5435.0 E10 ART 32 NACUW USB 2030 04/07/1999 Sun (GG)
5435.0 E10 ART 100 BJBIZ USB 2000 04/07/1999 Sun (GG)
5435.0 E10 ART 2 msgs: 87 WMYUL ?? ????? USB 2200 01/07/1999 Thu (GG)
5435.0 E10 ART 52 DXBP (fast pace voice) USB 2100 11/07/1999 Sun (GG)
5435.0 E10 ART 72 AECNM (fast pace voice) USB 2100 04/07/1999 Sun (GG)
5435.0 E10a ART2 USB 2230 21/07/1999 Wed (GG)
5435.0 E10a ART2 USB 0300 18/07/1999 Sun (GG)
5435.0 E10a ART2 USB 2230 22/07/1999 Thu (GG)

5437.0 E10 ART2 no msg USB 1900 02/07/1999 Fri (BA)
 5437.0 E10 ART 87 EHBZO USB 2330 17/07/1999 Sat (GG)
 5437.0 E10 ART 109 FLDTG USB 2330 19/07/1999 Mon (GG)
 5437.0 E10 ART 109 FLDTG USB 2330 21/07/1999 Wed (GG)
 5437.0 E10 ART 19 VQVCF USB 2330 28/07/1999 Wed (GG)
 5437.0 E10 ART 20 ARJOK USB 2330 11/07/1999 Sun (GG)
 5437.0 E10 ART heavy QRN USB 2330 05/07/1999 Mon (GG)
 5437.0 E10 ART 33 NBXVE USB 1830 07/07/1999 Wed (GG)
 5437.0 E10 ART 33 IFLBL USB 2330 29/07/1999 Thu (GG)
 5437.0 E10 in progress,heavily jammed USB 2005 02/07/1999 Fri (BA)
 5437.0 E10 ART2 no msg USB 1900 03/07/1999 Sat (BA)
 5437.0 E10 ART 64 OEEFB USB 2330 06/07/1999 Tue (GG)
 5448 The Pip Russian live male voice 1930 21/07/1999 Wed (RP)
 5580 G04 G04 July transmission 2030 04/07/1999 Sun (HFD)
 5580 G4 3 note oddity transmission 2000 12/07/1999 Mon (PB)
 5580.0 G04 AM 2035 15/07/1999 Thu (MH)
 5580.0 G04 AM 2035 11/07/1999 Sun (MH)
 5580.0 G04 AM 2035 15/07/1999 Thu (MH)
 5580.0 G04 AM 2035 11/07/1999 Sun (MH)
 5580.0 G04 AM 2035 15/07/1999 Thu (MH)
 5580.0 G04 AM 2035 11/07/1999 Sun (MH)
 5580.0 G04 AM 2035 15/07/1999 Thu (MH)
 5580.0 G04 AM 2035 11/07/1999 Sun (MH)
 5580.0 G04 AM 2035 15/07/1999 Thu (MH)
 5580.0 G04 AM 2035 11/07/1999 Sun (MH)
 5629 E10a YL/EE KPA2 unid. QRM 2030 27/07/1999 Tues (HP)
 5629.0 E03 KPA 2 no msg USB 2115 08/07/1999 Thu (SI)
 5629.0 E03 KPA 2 no msg USB 2015 08/07/1999 Thu (SI)
 5629.0 E03 KPA 2 no msg usb 2115 09/07/1999 Fri (SI)
 5629.0 E10 JSR2 USB 2215 01/07/1999 Thu (GG)
 5629.0 E10 KPA 2 no msg - at 22:00 still broadcasting USB 1945
 07/07/1999 Wed (SI)
 5629.0 E10 KPA 2 no msg usb 1918 11/07/1999 Sun (SI)
 5629.0 E10 KPA 2 no msg usb 2015 12/07/1999 Mon (SI)
 5629.0 E10a KPA2 USB 2315 12/07/1999 Mon (GG)
 5629.0 E10a KPA2 USB 2015 11/07/1999 Sun (GG)
 5629.0 E10a KPA2 USB 2215 21/07/1999 Wed (GG)
 5629.0 E10a KPA2 USB 2315 21/07/1999 Wed (GG)
 5629.0 E10a KPA2 USB 0015 22/07/1999 Thu (GG)
 5629.0 E10a KPA2 (was still up at 2231) USB 2215 25/07/1999 Sun (GG)
 5629.0 E10a KPA2 USB 2315 28/07/1999 Wed (GG)
 5629.0 E10a KPA2 USB 0015 30/07/1999 Fri (GG)
 5629.0 E10a KPA2 USB 2115 11/07/1999 Sun (GG)
 5629.0 E10a KPA2 USB 2215 12/07/1999 Mon (GG)
 5680 G04 G04 July transmsion 2000 04/07/1999 Sun (HFD)
 5680 G4 3 note oddity transmission 2000 12/07/1999 Mon (PB)
 5680.0 G04 AM 2005 15/07/1999 Thu (MH)
 5680.0 G04 AM 2005 11/07/1999 Sun (MH)

5680.0 G04 AM 2005 15/07/1999 Thu (MH)
 5680.0 G04 AM 2005 11/07/1999 Sun (MH)
 5680.0 G04 AM 2005 15/07/1999 Thu (MH)
 5680.0 G04 AM 2005 11/07/1999 Sun (MH)
 5680.0 G04 AM 2005 15/07/1999 Thu (MH)
 5680.0 G04 AM 2005 11/07/1999 Sun (MH)
 5680.0 G04 AM 2005 15/07/1999 Thu (MH)
 5680.0 G04 AM 2005 11/07/1999 Sun (MH)
 5752.0 G7 AM 2110 19/07/1999 Mon (DK)
 5758.5 M8a in progress - new schedule CW 0200 04/07/1999 Sun (JM4)
 5762.0 V2a rptg 22531 28502 35393 AM 0200 17/07/1999 Sat (JM4)
 5762.0 V2a rptg 92522 39501 35391 AM 0200 03/07/1999 Sat (JM4)
 5800.0 V2a unreadable broadcaster QRM AM 0300 19/07/1999 Mon (JM4)
 5820.0 E10 YHF 2 msgs : 60 SVYBD 67 ZRCJO USB 2330 21/07/1999 Wed (GG)
 5820.0 E10 YHF 2 msgs : 60 SVYBD 67 ZRCJO USB 2330 28/07/1999 Wed (GG)
 5820.0 E10 YHF 51 DFUOB USB 1800 07/07/1999 Wed (GG)
 5820.0 E10 YHF 2 msgs : 42 URUXL 14 XLKPQ USB 2330 06/07/1999 Tue (GG)
 5820.0 E10 YHF 2 msgs : 60 SVYBD 67 ZRCJO USB 2330 29/07/1999 Thu (GG)
 5820.0 E10 YHF 2 msgs: 60 SVYBD 67 ZRCJO USB 2330 19/07/1999 Mon (GG)
 5820.0 E10 YHF 140 WCUBE USB 2330 12/07/1999 Mon (GG)
 5820.0 E10 YHF 85 HMHSS USB 0230 18/07/1999 Sun (GG)
 5820.0 E10 YHF 2 msgs : 87 SAGGM 54 HEUCA USB 0200 16/07/1999 Fri (GG)
 5820.0 E10 YHF 70 NMODV USB 1900 08/07/1999 Thu (GG)
 5820.0 E10 2 msgs: ?? ????? 54 HEUCA USB 0208 25/07/1999 Sun (GG)
 5820.0 E10 YHF 140 WCUBE USB 2330 17/07/1999 Sat (GG)
 5820.0 E10a YHF2 USB 2000 11/07/1999 Sun (GG)
 5820.0 E10a YHF2 USB 2030 11/07/1999 Sun (GG)
 6270.0 E10 //7760 ULX USB 0100 03/07/1999 Sat (JM4)
 6270.0 E10 //7760 ULX (30) AAVIJ USB 0100 28/07/1999 Wed (JM4)
 6270.0 E10 ULX 12 FIKLF USB 0100 18/07/1999 Sun (GG)
 6270.0 E10 ULX 12 FIKLF USB 0100 15/07/1999 Thu (GG)
 6270.0 E10 ULX 56 RQDDY USB 1930 08/07/1999 Thu (GG)
 6270.0 E10 //7760 ULX USB 0100 11/07/1999 Sun (JM4)
 6270.0 E10 //7760 ULX USB 0100 09/07/1999 Fri (JM4)
 6270.0 E10 ULX USB 1830 07/07/1999 Wed (GG)
 6270.0 E10 //7760 ULX USB 0100 08/07/1999 Thu (JM4)
 6270.0 E10 //7760 ULX USB 0100 07/07/1999 Wed (JM4)
 6270.0 E10 //7760 ULX USB 0100 04/07/1999 Sun (JM4)
 6270.0 E10 //7760 ULX USB 0100 02/07/1999 Fri (JM4)
 6270.0 E10 //7760 ULX USB 0100 01/07/1999 Thu (JM4)
 6270.0 E10 //7760 ULX USB 0100 06/07/1999 Tue (JM4)
 6270.0 E10a ULX2 USB 2200 22/07/1999 Thu (GG)
 6270.0 E10a ULX2 USB 2200 21/07/1999 Wed (GG)
 6270.0 E10a ULX2 USB 0130 18/07/1999 Sun (GG)
 6270.0 E10a ULX2 USB 0130 16/07/1999 Fri (GG)
 6370.0 E10a MIW2 USB 2215 21/07/1999 Wed (GG)
 6370.0 E10a MIW2 USB 0015 22/07/1999 Thu (GG)
 6370.0 E10a MIW2 USB 2315 21/07/1999 Wed (GG)

6370.0 E10a MIW2 USB 2115 27/07/1999 Tue (GG)
6398.0 E10 PCD 25 0EFFM USB 2300 28/07/1999 Wed (GG)
6485.0 E3 id 53361 USB 2200 04/07/1999 Sun (GG)
6498.0 E10 PCD 78 ??SBZ USB 2300 06/07/1999 Tue (GG)
6498.0 E10 PCD 2 msgs: 42 ????? 77 NMXND USB 0030 17/07/1999 Sat (GG)
6498.0 E10 probably PCD USB 2300 01/07/1999 Thu (GG)
6645.0 v8 AM 1815 03/07/1999 Sat (MH)
6645.0 v8 AM 1815 03/07/1999 Sat (MH)
6645.0 v8 AM 1815 03/07/1999 Sat (MH)
6645.0 v8 AM 1815 03/07/1999 Sat (MH)
6645.0 v8 AM 1815 03/07/1999 Sat (MH)
6658 E3 YL/EE KPA2 light Jamming 2100 27/07/1999 Tues (HP)
6658 KPA2 continuously broadcast at least till 20:52 USB 1730
07/07/1999 Wed (JMM)
6658.0 E10a KPA2 USB 0015 30/07/1999 Fri (GG)
6658.0 E10a KPA2 USB 2315 21/07/1999 Wed (GG)
6658.0 E10a KPA2 USB 2215 21/07/1999 Wed (GG)
6658.0 E10a KPA2 USB 2315 12/07/1999 Mon (GG)
6658.0 E10a KPA2 USB 2215 12/07/1999 Mon (GG)
6658.0 E10a KPA2 USB 2015 11/07/1999 Sun (GG)
6658.0 E10a KPA2 was still on air at 1828 USB 1815 07/07/1999 Wed (GG)
6658.0 E10a KPA2 USB 1745 07/07/1999 Wed (GG)
6658.0 E10a KPA2 USB 1730 07/07/1999 Wed (GG)
6658.0 E10a KPA2 USB 0015 22/07/1999 Thu (GG)
6658.0 E10a KPA2 (was still up at 2231) USB 2215 25/07/1999 Sun (GG)
6658.8 E10a KPA2 USB 2315 28/07/1999 Wed (GG)
6745.0 E10//5 repeating "CIO 2" no msg transmitted USB 1945
06/07/1999 Tue (SI)
6745.0 E10a CIO2 USB 2245 06/07/1999 Tue (GG)
6745.0 E10a CIO2 USB 2345 06/07/1999 Tue (GG)
6745.0 E10a CIO2 USB 2045 11/07/1999 Sun (GG)
6745.0 E10a CIO2 USB 2245 12/07/1999 Mon (GG)
6745.0 E10a CIO2 USB 0045 21/07/1999 Wed (GG)
6745.0 E10a CIO2 USB 2245 10/07/1999 Sat (GG)
6767.0 M8a ID .. 71292 .. - VERY WEAK, QRN HEAVY CW 1204
04/07/1999 Sun (MS)
6768.0 V2 Spanish Lady YL/SS in progress AM 0421 14/07/1999 Wed (SD)
6768.0 V2a in progress AM 0400 19/07/1999 Mon (JM4)
6768.0 V2a rptg 22532 01341 83121 AM 0100 24/07/1999 Sat (JM4)
6768.0 V2a rptg 22531 28502 35393 AM 0100 17/07/1999 Sat (JM4)
6768.0 V2a ID 92.22 - YL/SS - QRN HVY AND SIGNAL WEAK
AM 0100 03/07/1999 Sat (MS)
6768.0 V2a rptg 92522 39501 35391 AM 0100 03/07/1999 Sat (JM4)
6778.0 V2a rptg 48663 22653 46051 5FG AM 0100 06/07/1999 Tue (JM4)
6786.0 V2 Spanish Lady YL/SS in progress AM 0605 25/07/1999 Sun (SD)
6786.0 V2 Spanish Lady YL/SS in progress AM 0619 18/07/1999 Sun (SD)
6796.0 M8a ID 33703 61291 - VY HVY QRN CW 1200 03/07/1999 Sat (MS)
6840.0 E03 EZI 1 usb 2130 09/07/1999 Fri (SI)

6840.0 E10 Mossad YL/EE in progress //9130 AM 2244 19/07/1999 Mon (SD)
6840.0 E10 EZI very weak USB 1900 01/07/1999 Thu (BA)
6840.0 E10 EZI 2 no msg usb 1930 12/07/1999 Mon (SI)
6840.0 E10 //9130 EZI USB 0100 28/07/1999 Wed (JM4)
6840.0 E10 EZI 40 VHKWD USB 1900 08/07/1999 Thu (GG)
6840.0 E10 //9130 EZI USB 0100 27/07/1999 Tue (BA)
6840.0 E10 EZI 30 AVPWQ USB 2230 10/07/1999 Sat (GG)
6840.0 E10 EZI 15 EETRW USB 2000 11/07/1999 Sun (GG)
6840.0 E10 EZI 30 AVPWQ
6840.0 E10 //9130 EZI (11) WQGPf USB 0100 21/07/1999 Wed (JM4)
6840.0 E10 EZI ?? ELFNr USB 2130 21/07/1999 Wed (GG)
6840.0 E10 //9130 EZI USB 0100 23/07/1999 Fri (JM4)
6840.0 E10 //9130 EZI USB 0100 11/07/1999 Sun (JM4)
6840.0 E10 //9130 EZI USB 0100 20/07/1999 Tue (JM4)
6840.0 E10 EZI USB 1930 06/07/1999 Tue (SI)
6840.0 E10 //9130 EZI USB 0100 19/07/1999 Mon (JM4)
6840.0 E10 EZI 11 WQGPf USB 0100 15/07/1999 Thu (GG)
6840.0 E10 //9130 EZI USB 0100 24/07/1999 Sat (JM4)
6840.0 E10 EZI 49 BMUD0 USB 2130 11/07/1999 Sun (GG)
6840.0 E10 //9130 EZI USB 0100 02/07/1999 Fri (JM4)
6840.0 E10 EZI 2 msgs: 58 UICWU 72 ROMAP USB 1730 07/07/1999 Wed (GG)
6840.0 E10 EZI 97 SRPMN USB 2230 05/07/1999 Mon (GG)
6840.0 E10 //9130 EZI USB 0100 08/07/1999 Thu (JM4)
6840.0 E10 //9130 EZI USB 0100 07/07/1999 Wed (JM4)
6840.0 E10 EZI//11565 USB 1900 06/07/1999 Tue (SI)
6840.0 E10 EZI
6840.0 E10 EZI USB 0100 03/07/1999 Sat (JM4)
6840.0 E10 //9130 EZI USB 0100 09/07/1999 Fri (JM4)
6840.0 E10 //9130 EZI 2 USB 1930 07/07/1999 Wed (SI)
6840.0 E10a EZI2 USB 2200 12/07/1999 Mon (GG)
6840.0 E10a EZI2 USB 2200 21/07/1999 Wed (GG)
6840.0 E10a EZI2 USB 2230 21/07/1999 Wed (GG)
6840.0 E10a EZI2 USB 2200 22/07/1999 Thu (GG)
6840.0 E10a EZI2 USB 2200 10/07/1999 Sat (GG)
6840.0 E10a EZI2 USB 2200 25/07/1999 Sun (GG)
6840.0 E10a EZI2 USB 1930 08/07/1999 Thu (GG)
6840.0 E10a EZI2 USB 2230 22/07/1999 Thu (GG)
6855 E17 USB 13/07/1999 Tues (GR)
6855.0 V2a in progress AM 0300 19/07/1999 Mon (JM4)
6867 E17 open carrier test tones data burst USB 0200 13/07/1999
Tues (GR)
6915 G7 same voice as track 19 disc 2 of conet proj. USB 2050
12/07/1999 Mon (CD)
6915.0 G7 AM 2050 19/07/1999 Mon (DK)
6959 E3 YL/EE 50371 2000 21/07/1999 Wed (HP)
6959.0 E03 //11545//9251 USB 2005 08/07/1999 Thu (SI)
6959.0 E03 //9251//11545 USB 0020 05/07/1999 Mon (SI)
6959.0 E03 USB 1930 06/07/1999 Tue (SI)

6959.0 E3 id 00215 82291 Õ USB 2000 04/07/1999 Sun (GG)
 6982.0 M8a ID 44851 24443 - VERY HEAVY QRN, HARD TO COPY CW 1205
 12/07/1999 Mon (MS)
 7337 E3 YL/EE 55015 //9251 light BC-QRM 2100 27/07/1999 Tues (HP)
 7337 E3 YL/EE 55015 //9251 //12603 2200 21/07/1999 Wed (HP)
 7555.0 V2a rptg 58582 60432 23512 AM 0300 04/07/1999 Sun (JM4)
 7555.0 V2a ID 58782 60432 23512 - YL/SS - rpt of 0204Z on 7887
 AM 0300 04/07/1999 Sun (MS)
 7555.0 V2a ID 58132 60433 23513 - YL/SS - rpt of 0200Z on 7887
 AM 0300 11/07/1999 Sun (MS)
 7555.0 V2a rptg 12522 88051 18531 AM 0300 18/07/1999 Sun (JM4)
 7583.0 V2 ID 928 04 (NOTE: THIS SKED CAME UP RIGHT UNDER 1026Z ON
 7583((V2a)) AM 1030 12/07/1999 Mon (MS)
 7583.0 V2 Spanish Lady YL/SS in progress AM 1014 05/07/1999 Mon (SD)
 7583.0 V2a AM 1000 05/07/1999 Mon (JK)
 7583.0 V2a ID 39781 - YL/SS AM 1026 12/07/1999 Mon (MS)
 7722.0 M13 254 R5 188 22 BT (5F) 254 R1 188 22 (5F) 000 (LONG DASHES)
 CW 0300 08/07/1999 Thu (MS)
 7724.0 M13 down w/BT T T T CW 0300 08/07/1999 Thu (JM4)
 7734.0 V2 rptg 584/01 and 01/42 AM 0400 02/07/1999 Fri (JM4)
 7760.0 E10 ULX USB 0100 20/07/1999 Tue (JM4)
 7760.0 E10 //6270 ULX (30) AAVIJ USB 0100 28/07/1999 Wed (JM4)
 7760.0 E10 ULX USB 0100 27/07/1999 Tue (BA)
 7760.0 E10 ULX USB 0100 24/07/1999 Sat (JM4)
 7760.0 E10 ULX USB 0100 21/07/1999 Wed (JM4)
 7760.0 E10 ULX USB 0100 19/07/1999 Mon (JM4)
 7760.0 E10 ULX 12 FIKLF USB 0100 18/07/1999 Sun (GG)
 7760.0 E10 ULX USB 0100 17/07/1999 Sat (JM4)
 7760.0 E10 ULX 12 FIKLF USB 0100 15/07/1999 Thu (GG)
 7760.0 E10 ULX USB 0100 15/07/1999 Thu (JM4)
 7760.0 E10 ULX USB 0100 14/07/1999 Wed (JM4)
 7760.0 E10 //6270 ULX USB 0100 09/07/1999 Fri (JM4)
 7760.0 E10 //6270 ULX USB 0100 08/07/1999 Thu (JM4)
 7760.0 E10 //6270 ULX USB 0100 07/07/1999 Wed (JM4)
 7760.0 E10 //6270 ULX USB 0100 06/07/1999 Tue (JM4)
 7760.0 E10 //6270 ULX USB 0100 04/07/1999 Sun (JM4)
 7760.0 E10 //6270 ULX USB 0100 03/07/1999 Sat (JM4)
 7760.0 E10 //6270 ULX USB 0100 02/07/1999 Fri (JM4)
 7760.0 E10 //6270 ULX USB 0100 01/07/1999 Thu (JM4)
 7760.0 E10 ULX USB 0100 23/07/1999 Fri (JM4)
 7760.0 E10 //6270 ULX USB 0100 11/07/1999 Sun (JM4)
 7887.0 V2a ID 60432 23512 - YL/SS AM 0204 04/07/1999 Sun (MS)
 7887.0 V2a rptg 12522 88051 18531 AM 0200 18/07/1999 Sun (JM4)
 7887.0 V2a ID 60433 23513 - YL/SS AM 0200 11/07/1999 Sun (MS)
 7887.0 V2a rptg 58582 60432 23512 AM 0200 04/07/1999 Sun (JM4)
 7887.0 V2a rptg 58132 60433 23513 AM 0200 11/07/1999 Sun (JM4)
 7918 E10 multi-message YHF YL spelling her 5LGs USB 1610
 07/07/1999 Wed (JMM)

7918.0 E10 YHF 85 HMHSS USB 0230 18/07/1999 Sun (GG)
7918.0 E10 YHF USB 0200 15/07/1999 Thu (JM4)
7918.0 E10 YHF 2msgs 87 SAGGM 54 HEUCA USB 0200 15/07/1999 Thu (GG)
7918.0 E10 YHF 2 msgs : 87 SAGGM 54 HEUCA USB 0200 16/07/1999 Fri (GG)
7918.0 E10 YHF (43) YQIEG USB 0200 28/07/1999 Wed (JM4)
7918.0 E10 YHF USB 0200 17/07/1999 Sat (JM4)
7918.0 E10 YHF 2 msgs: 87 SAGGM 54 HEUCA USB 0200 18/07/1999 Sun (GG)
7918.0 E10 YHF USB 0200 19/07/1999 Mon (JM4)
7918.0 E10 YHF USB 0200 20/07/1999 Tue (JM4)
7918.0 E10 YHF 2mes #1 (?) SAGGM #2 ? weak USB 0200 21/07/1999 Wed (JM4)
7918.0 E10 YHF USB 0230 14/07/1999 Wed (JM4)
7918.0 E10 2 msgs: ?? ????? 54 HEUCA USB 0208 25/07/1999 Sun (GG)
7918.0 E10 several msgs: ?? ????? 76 TOIRY USB 1610 07/07/1999 Wed (GG)
7918.0 E10 YHF USB 0200 18/07/1999 Sun (JM4)
7918.0 E10 YHF USB 0200 02/07/1999 Fri (JM4)
7918.0 E10 YHF USB 0200 14/07/1999 Wed (JM4)
7918.0 E10 YHF USB 0200 09/07/1999 Fri (JM4)
7918.0 E10 YHF USB 0200 01/07/1999 Thu (JM4)
7918.0 E10 YHF USB 0200 03/07/1999 Sat (JM4)
7918.0 E10 ID YHF - YL/EE USB 0200 04/07/1999 Sun (MS)
7918.0 E10 YHF USB 0200 06/07/1999 Tue (JM4)
7918.0 E10 YHF USB 0200 07/07/1999 Wed (JM4)
7918.0 E10 YHF 51 DFUOB USB 1800 07/07/1999 Wed (GG)
7918.0 E10 YHF USB 0200 11/07/1999 Sun (JM4)
7918.0 E10 in progress several msgs: 76 TOIRY USB 1629 09/07/1999 Fri (GG)
7920.0 e6 AM 2020 17/07/1999 Sat (MH)
7920.0 e6 AM 2020 17/07/1999 Sat (MH)
7920.0 e6 AM 2020 17/07/1999 Sat (MH)
7920.0 e6 AM 2020 17/07/1999 Sat (MH)
7920.0 e6 AM 2020 17/07/1999 Sat (MH)
8025.0 E18 v poor USB 2100 14/07/1999 Wed (DK)
8067.0 M8a ID 74863 51951 CW 0505 08/07/1999 Thu (MS)
8085.0 E5 067 VERY STRONG USB 0017 01/07/1999 Thu (SG)
8085.0 E5 067 STRONG USB 0017 05/07/1999 Mon (SG)
8085.0 M5 Very Strong! 5/9 +50 USB 0018 22/07/1999 Thu (AR)
8085.5 E5 067 STRONG USB 0017 12/07/1999 Mon (SG)
8096.0 M8a ID 57921 89821 86002 CW 0800 09/07/1999 Fri (MS)
8097.0 V2 Spanish Lady YL/SS id 14072, 70623, 97193 AM 0610
28/07/1999 Wed (SD)
8097.0 V2 Spanish Lady YL/SS in progress AM 0635 06/07/1999 Tue (SD)
8097.0 V2a ID .. 86123 - YL/SS AM 1003 08/07/1999 Thu (MS)
8098.0 M8a ID .. - rpt of 0735Z on 9153 - (T00 WEAK TO COPY) CW
0800 07/07/1999 Wed (MS)
8098.0 M8a T00 WEAK FOR COPY- rpt of 0735Z on 9153 CW 0800
07/07/1999 Wed (MS)
8098.0 M8a ID .. 55051 - rpt of 0717Z on 9153 CW 0815 05/07/1999 Mon (MS)
8136.0 M8a ID 46411 31393 03663 CW 1100 03/07/1999 Sat (MS)
8136.0 M8a ID 43921 44131 42803 CW 1000 04/07/1999 Sun (MS)

8136.0 M8a ID 65451 95342 CW 1106 10/07/1999 Sat (MS)
8136.0 M8a ID 22372 75482 63021 CW 1000 11/07/1999 Sun (MS)
8137.0 M8a ID 50541 98021 55052 - rpt of 0700Z on 9238 CW 0800
06/07/1999 Tue (MS)
8137.0 M8a ID 98023 86001 CW 0812 08/07/1999 Thu (MS)
8137.0 M8a ID 83321 89822 86003 CW 0800 10/07/1999 Sat (MS)
8137.0 M8a ID 54432 25432 16363 - rpt of 0700Z on 9064 CW 0800
04/07/1999 Sun (MS)
8170.0 G7 Older woman voice AM 2025 19/07/1999 Mon (DK)
8464.0 E3 id 53361 USB 2200 04/07/1999 Sun (GG)
8465.0 E10a SYN2 USB 1645 07/07/1999 Wed (GG)
9064.0 M8a ID 54432 25432 16363 CW 0700 04/07/1999 Sun (MS)
9129.9 E10 EZI 97 SRPMN USB 2230 04/07/1999 Sun (GG)
9130 E10 YL/EE Group 15 st. UtilityQRM 2000 27/07/1999 Tues (HP)
9130 E10a YL/EE EZ12 1630 27/07/1999 Tues (HP)
9130.0 E10 EZI ?? ELFNR USB 2130 21/07/1999 Wed (GG)
9130.0 E10 EZI 15 EETRW USB 2000 11/07/1999 Sun (GG)
9130.0 E10 EZI 30 AVPWQ USB 2230 11/07/1999 Sun (GG)
9130.0 E10 EZI 30 AVPWQ USB 2230 12/07/1999 Mon (GG)
9130.0 E10 ??? 28 VIRNJ
9130.0 E10 //6840 EZI USB 0100 19/07/1999 Mon (JM4)
9130.0 E10 //6840 EZI USB 0100 20/07/1999 Tue (JM4)
9130.0 E10 EZI too weak to copy USB 0700 20/07/1999 Tue (GG)
9130.0 E10 EZI 2 msgs: 58 UICWU 72 ROMAP USB 1730 07/07/1999 Wed (GG)
9130.0 E10 //6840 EZI USB 0100 23/07/1999 Fri (JM4)
9130.0 E10 Mossad YL/EE in progress //6840 AM 2244 19/07/1999 Mon (SD)
9130.0 E10 //6840 EZI USB 0100 24/07/1999 Sat (JM4)
9130.0 E10 //6840 EZI USB 0100 27/07/1999 Tue (BA)
9130.0 E10 //6840 EZI (11) WQGPf USB 0100 21/07/1999 Wed (JM4)
9130.0 E10 EZI 2 no msg usb 1930 11/07/1999 Sun (SI)
9130.0 E10 //6840 EZI USB 0100 09/07/1999 Fri (JM4)
9130.0 E10 EZI 97 SRPMN USB 2230 05/07/1999 Mon (GG)
9130.0 E10 //6840 EZI USB 0100 08/07/1999 Thu (JM4)
9130.0 E10 EZI - no number - message USB 2030 07/07/1999 Wed (SI)
9130.0 E10 //6840 EZI 2 USB 1930 07/07/1999 Wed (SI)
9130.0 E10 //6840 EZI USB 0100 07/07/1999 Wed (JM4)
9130.0 E10 //6840 EZI USB 0100 06/07/1999 Tue (JM4)
9130.0 E10 //11565 EZI bad reception, seemed to end as "end of
message one" USB 0020 05/07/1999 Mon (SI)
9130.0 E10 6840 EZI2 USB 2200 04/07/1999 Sun (GG)
9130.0 E10 //6840 EZI
9130.0 E10 EZI // not heard USB 0100 01/07/1999 Thu (JM4)
9130.0 E10 EZI 49 BMUDO USB 2130 11/07/1999 Sun (GG)
9130.0 E10 //6840 EZI USB 0100 28/07/1999 Wed (JM4)
9130.0 E10 //6840 EZI USB 0100 11/07/1999 Sun (JM4)
9130.0 E10 EZI 30 AVPWQ USB 2230 10/07/1999 Sat (GG)
9130.0 E10a EZI2 USB 2200 25/07/1999 Sun (GG)
9130.0 E10a EZI2 USB 2230 22/07/1999 Thu (GG)

9130.0 E10a EZI2 USB 2200 22/07/1999 Thu (GG)
 9130.0 E10a EZI2 USB 2230 21/07/1999 Wed (GG)
 9130.0 E10a EZI2 USB 2200 21/07/1999 Wed (GG)
 9130.0 E10a EZI2 USB 2200 12/07/1999 Mon (GG)
 9130.0 E10a EZI2 USB 1630 09/07/1999 Fri (GG)
 9130.0 E10a EZI2 USB 1930 08/07/1999 Thu (GG)
 9152.0 M8a ID 46411 31393 03663 - rpt of 1100Z on 8136 CW 1200
 03/07/1999 Sat (MS)
 9153.0 M8a ID 53331 21152 50943 CW 1000 07/07/1999 Wed (MS)
 9153.0 M8a ID 87412 16782 31411 CW 1000 14/07/1999 Wed (MS)
 9153.0 M8a ID 22373 63022 65453 CW 1000 12/07/1999 Mon (MS)
 9153.0 M8a ID 53333 99473 29452 CW 1000 09/07/1999 Fri (MS)
 9153.0 M8a ID 55051 CW 0717 05/07/1999 Mon (MS)
 9153.0 M8a ID 53331 21152 50943 CW 1000 07/07/1999 Wed (MS)
 9153.0 M8a ID 43922 50941 45922 CW 1000 05/07/1999 Mon (MS)
 9153.0 M8a IN PROGRESS) CW 0735 07/07/1999 Wed (MS)
 9153.0 M8a ID 74862 60553 CW 0606 06/07/1999 Tue (MS)
 9153.0 M8a IN PROGRESS- CW 0735 07/07/1999 Wed (MS)
 9153.0 M8a ID 62872 83381 36982 CW 0700 12/07/1999 Mon (MS)
 9153.0 V2 ID 962 01 AM 1105 11/07/1999 Sun (MS)
 9153.0 V2 ID 172 03 - 51 GROUP MSG - YL/SS AM 1000 03/07/1999 Sat (MS)
 9153.0 V2 Spanish Lady YL/SS in progress AM 1008 03/07/1999 Sat (SD)
 9154.0 M8a ID 46413 65451 95342 - rpt of 1106Z on 8136 CW 1200
 10/07/1999 Sat (MS)
 9215 E3 audio test tone 2050 01/07/1999 Thur (RP)
 9219.0 E05 067 COUNT 121 STRONG USB 0017 01/07/1999 Thu (SG)
 9219.0 E5 067 COUNT 121 STRONG USB 0017 12/07/1999 Mon (SG)
 9219.0 E5 in progress, off at 1735 USB 1730 15/07/1999 Thu (BA)
 9238.0 M8a ID 00111 82751 48931 - rpt of 0800Z on 10446 CW 0900
 09/07/1999 Fri (MS)
 9238.0 M8a ID 25431 - HVY QRM CW 0700 03/07/1999 Sat (MS)
 9238.0 M8a ID 33561 96271 08251 CW 0900 12/07/1999 Mon (MS)
 9238.0 M8a ID 65262 10482 47992 - rpt of 0803Z on 10446 CW 0900
 07/07/1999 Wed (MS)
 9238.0 M8a ID 50541 98021 55052 CW 0700 06/07/1999 Tue (MS)
 9238.0 M8a ID 42391 74863 51951 - rpt of 0505Z on 8067 CW 0600
 08/07/1999 Thu (MS)
 9238.0 M8a ID 36613 CW 0916 05/07/1999 Mon (MS)
 9239.0 M8a ID 43921 44131 42803 - rpt of 1000Z on 8136 CW 1100
 04/07/1999 Sun (MS)
 9239.0 M8a ID 22372 75482 63021 - rpt of 1000Z on 8136 CW 1100
 11/07/1999 Sun (MS)
 9251 E3 YL/EE 55015 2100 27/07/1999 Tues (HP)
 9251 E3 YL/EE 47663 unid. QRM 2000 27/07/1999 Tues (HP)
 9251 E3 YL/EE 55015: //7337 //12603 2200 21/07/1999 Wed (HP)
 9251.0 E03 //6959//11545 USB 2005 08/07/1999 Thu (SI)
 9251.0 E03 USB 1930 06/07/1999 Tue (SI)
 9251.0 E03 //11545//6959 USB 0020 05/07/1999 Mon (SI)

9251.0 E03 //11545 USB 0019 04/07/1999 Sun (SI)
 9251.0 E3 id 00215 82291 Ö USB 2000 04/07/1999 Sun (GG)
 9260.0 V2 rptg 616/02 and 02/53 AM 0200 07/07/1999 Wed (JM4)
 9260.0 V2 rptg 616/04 and 04/57 AM 0200 28/07/1999 Wed (JM4)
 9260.0 V2 audio unreadable - low volume AM 0200 14/07/1999 Wed (JM4)
 9260.0 V2 SENDS 5FG - 616 02 02 53 FINALx2 AM 0802 06/07/1999 Tue (MS)
 9260.0 V2 rptg 616/02 and 02/46 AM 0200 21/07/1999 Wed (JM4)
 9268 much weaker station USB 0400 13/07/1999 Tues (HS)
 9268.0 V2 Spanish Lady YL/SS id 663 01, 584 08 AM 0611 27/07/1999
 Tue (SD)
 9268.0 V2 Spanish Lady YL/SS id ??? ??, 584 04 grp 03 46 AM 0605
 06/07/1999 Tue (SD)
 9323.0 M8a ID 02093 66581 42802 CW 1000 03/07/1999 Sat (MS)
 9323.0 M8a ID 54132 60282 36612 - rpt of 0800Z on 10236 CW 0900
 04/07/1999 Sun (MS)
 9323.0 M8a ID 43923 66582 50942 CW 1000 06/07/1999 Tue (MS)
 9323.0 M8a ID 50162 83943 29621 CW 1000 10/07/1999 Sat (MS)
 9323.0 M8a ID 53332 66583 42091 CW 1000 08/07/1999 Thu (MS)
 9323.0 V2a ID 01531 58701 - YL/SS AM 0408 08/07/1999 Thu (MS)
 9330.0 M8a ID 99763 32252 CW 1207 07/07/1999 Wed (MS)
 9330.0 M8a ID 17942 99761 33973 CW 1200 05/07/1999 Mon (MS)
 9330.0 M8a ID 17941 39593 33972 CW 1200 04/07/1999 Sun (MS)
 9330.0 M8a ID 89652 87352 31392 - rpt of 0400Z on 10125 CW 0500
 03/07/1999 Sat (MS)
 9330.0 M8a ID 99763 32252 CW 1207 07/07/1999 Wed (MS)
 9330.0 M8a ID 89572 86411 52333 CW 1200 11/07/1999 Sun (MS)
 9330.0 M8a ID 69903 05792 52331 CW 1200 09/07/1999 Fri (MS)
 9330.0 M8a ID 89573 86412 10611 CW 1200 12/07/1999 Mon (MS)
 9331.0 V2 Spanish Lady YL/SS id 01532, 47503, 60511 AM 0600
 12/07/1999 Mon (SD)
 9382 E10 multi-message YHF YL spelling her 5LGs USB 1600
 07/07/1999 Wed (JMM)
 9382.0 E10 several msgs: 76 TOIRY USB 1629 09/07/1999 Fri (GG)
 9382.0 E10 YHF USB 0430 10/07/1999 Sat (JM4)
 9382.0 E10 several msgs: ?? ????? 76 TOIRY USB 1610 07/07/1999 Wed (GG)
 9382.0 E10 YHF 19 BVKEM USB 0430 06/07/1999 Tue (GG)
 9382.0 E10 YHF 5 UAPVL USB 0430 02/07/1999 Fri (GG)
 10046.0 M22 4XZ marker CW 0200 14/07/1999 Wed (JM4)
 10046.0 M22 //17050 4XZ marker CW 0100 28/07/1999 Wed (JM4)
 10046.0 M22 //17050 4XZ marker CW 2300 26/07/1999 Mon (JM4)
 10046.0 M22 //17050 4XZ marker CW 0000 24/07/1999 Sat (JM4)
 10046.0 M22 //17050 4XZ marker CW 0100 23/07/1999 Fri (JM4)
 10046.0 M22 //17050 4XZ in traffic CW 0000 21/07/1999 Wed (JM4)
 10046.0 M22 4XZ marker CW 0300 10/07/1999 Sat (JM4)
 10046.0 M22 4XZ marker CW 0000 03/07/1999 Sat (JM4)
 10046.0 M22 4XZ marker CW 0100 04/07/1999 Sun (JM4)
 10046.0 M22 4XZ in traffic CW 0100 06/07/1999 Tue (JM4)
 10046.0 M22 4XZ marker CW 0000 07/07/1999 Wed (JM4)

10046.0 M22 4XZ marker CW 0000 08/07/1999 Thu (JM4)
10046.0 M22 //17050 4XZ marker CW 0000 17/07/1999 Sat (JM4)
10046.0 M22 4XZ marker CW 2300 08/07/1999 Thu (JM4)
10046.0 M22 //17050 4XZ marker CW 2300 19/07/1999 Mon (JM4)
10046.0 M22 4XZ marker CW 0000 11/07/1999 Sun (JM4)
10046.0 M22 4XZ in traffic CW 2300 14/07/1999 Wed (JM4)
10046.0 M22 //17050 4XZ in traffic CW 0200 18/07/1999 Sun (JM4)
10046.0 M22 //17050 4XZ marker CW 0000 19/07/1999 Mon (JM4)
10047.0 M22 4XZ in traffic CW 0100 02/07/1999 Fri (JM4)
10125.0 M8a ID 89652 87352 31392 CW 0400 03/07/1999 Sat (MS)
10125.5 M8a in progress - new schedule CW 0400 10/07/1999 Sat (JM4)
10126.0 M8a ID 82752 48932 - rpt of 0804Z on 11432 CW 0904
10/07/1999 Sat (MS)
10126.0 M8a ID 22373 63022 65453 - rpt of 1000Z on 9153 CW 1100
12/07/1999 Mon (MS)
10126.0 M8a ID 65261 10481 47991 CW 0900 06/07/1999 Tue (MS)
10126.0 M8a ID 87412 16782 31411 - rpt of 1000Z on 9153 CW 1100
14/07/1999 Wed (MS)
10126.0 M8a ID 53333 99473 29452 - rpt of 1000Z on 9153 CW 1100
09/07/1999 Fri (MS)
10126.0 M8a ID 10483 47993 CW 0904 08/07/1999 Thu (MS)
10127.0 M8a ID 43922 50941 45922 - rpt of 1000Z on 9153 CW 1100
05/07/1999 Mon (MS)
10180.0 S7 ID:"482" then "916-916-93-93" 5fg groups, ended with
"000 000" AM 1730 13/07/1999 Tue (BA)
10235.0 M8a ID 44132 45922 87353 CW 0400 06/07/1999 Tue (MS)
10235.0 M8a ID 22371 75481 65451 CW 0400 11/07/1999 Sun (MS)
10236.0 M8a ID 54132 60282 36612 CW 0800 04/07/1999 Sun (MS)
10240.0 M? 320 R10 - THEN WENT SILENT CW 0400 11/07/1999 Sun (MS)
10241.0 ?? rptg 320 (long 0) until :10 then down CW 0300
09/07/1999 Fri (JM4)
10346.0 M8a ID 43923 66582 50942 - rpt of 1000Z on 9323 CW 1100
06/07/1999 Tue (MS)
10346.0 M8a ID 22371 00091 29453 CW 1100 10/07/1999 Sat (MS)
10346.0 M8a ID 53332 66583 42091 - rpt of 1000Z on 9323 CW 1100
08/07/1999 Thu (MS)
10356.0 M22 //14649//18482 4XZ in tfc CW 2300 26/07/1999 Mon (JM4)
10356.0 M22 //14649//18482 4XZ in tfc CW 0100 28/07/1999 Wed (JM4)
10356.0 M22 //14649//18482 4XZ in tfc CW 0000 24/07/1999 Sat (JM4)
10356.0 M22 //14649//18482 4XZ in tfc CW 0100 23/07/1999 Fri (JM4)
10356.0 M22 //14649//18482 4XZ in traffic CW 0000 21/07/1999 Wed (JM4)
10356.0 M22 //14649//18482 4XZ marker CW 2300 19/07/1999 Mon (JM4)
10356.0 M22 //14649 4XZ in traffic CW 2300 08/07/1999 Thu (JM4)
10356.0 M22 //14649 4XZ in traffic - appeared // CW 0000 03/07/1999
Sat (JM4)
10356.0 M22 //14649 4XZ marker CW 0300 10/07/1999 Sat (JM4)
10356.0 M22 //14649 4XZ marker CW 0100 04/07/1999 Sun (JM4)
10356.0 M22 //14649 4XZ marker CW 0100 06/07/1999 Tue (JM4)

10356.0 M22 //14649//18482 4XZ marker CW 0000 19/07/1999 Mon (JM4)
 10356.0 M22 //14649 4XZ marker CW 0000 08/07/1999 Thu (JM4)
 10356.0 M22 //14649 4XZ in traffic CW 0000 11/07/1999 Sun (JM4)
 10356.0 M22 //14649 4XZ in traffic CW 0200 14/07/1999 Wed (JM4)
 10356.0 M22 4XZ in traffic CW 0000 01/07/1999 Thu (JM4)
 10356.0 M22 //14649 4XZ in traffic CW 2300 14/07/1999 Wed (JM4)
 10356.0 M22 //14649//18482 4XZ in traffic CW 0000 17/07/1999 Sat (JM4)
 10356.0 M22 //14649//18482 4XZ marker CW 0200 18/07/1999 Sun (JM4)
 10356.0 M22 //14649 4XZ in traffic CW 0000 07/07/1999 Wed (JM4)
 10367.0 M22 4XZ in traffic CW 0100 02/07/1999 Fri (JM4)
 10423.0 E5 "848-1234567890" USB 2200 14/07/1999 Wed (BA)
 10423.0 E5 "848-1234567890" USB 2200 18/07/1999 Sun (BA)
 10423.0 E5 "674 - 1234567890" RTTY in the background USB 1600
 16/07/1999 Fri (BA)
 10423.0 E5 TCS YL/EE id 848 count 111 //12197 AM 2200
 28/07/1999 Wed (SD)
 10423.0 E5 "375-1234567890" //14421 very strong USB 2100
 14/07/1999 Wed (BA)
 10423.0 E5 "993-1234567890" very strong signal USB 1600
 14/07/1999 Wed (BA)
 10423.0 E5 "186-1234567890" group count 122,readable USB 2205
 07/07/1999 Wed (BA)
 10423.0 E5 "634-1234567890"Group count 159,5fg (3x2), very strong
 signal USB 1600 07/07/1999 Wed (BA)
 10423.0 E5 "674-1234567890" USB 1600 18/07/1999 Sun (BA)
 10426.0 E3 suffered heavy QRM from TCS on frequency nearby USB
 1600 14/07/1999 Wed (BA)
 10426.0 E3 id 53361 81859 Ö USB 1400 05/07/1999 Mon (GG)
 10426.0 E3 "53361" obscured by TCS transmitting on 10423 USB
 1600 07/07/1999 Wed (BA)
 10440.0 G6 German Lady YL/GG null msg "487 487 487 000000" AM
 0402 06/07/1999 Tue (SD)
 10443.0 M? -IN PROGRESS- 5FGx2 CW 0810 07/07/1999 Wed (MS)
 10443.0 M? (IN PROGRESS) - (5FGx2, T=0) CW 0810 07/07/1999 Wed (MS)
 10443.0 M? 5FG, T=0 - IN PROGRESS - BTx2 723x3 81x2 000000 CW 0812
 06/07/1999 Tue (MS)
 10446.0 M8a ID 45923 96221 CW 1105 06/07/1999 Tue (MS)
 10446.0 M8a ID 10482 47992 CW 0803 07/07/1999 Wed (MS)
 10446.0 M8a ID 10482 47992 CW 0803 07/07/1999 Wed (MS)
 10446.0 M8a ID 00111 82751 48931 CW 0800 09/07/1999 Fri (MS)
 10446.0 M8a ID 40502 29451 CW 1103 08/07/1999 Thu (MS)
 10446.0 V2 Spanish Lady YL/SS in progress, v. faint AM 0309
 26/07/1999 Mon (SD)
 10446.0 V2a i/p mixing w/M8a transmission AM 0300 19/07/1999 Mon (JM4)
 10446.0 V2a rptg 58133 48102 56481 AM 0300 14/07/1999 Wed (JM4)
 10446.0 V2a Attcn 01532,45503,30511 AM 0502 12/07/1999 Mon (JK)
 10446.0 V2a rptg 58583 48101 14291 mixing w/M8a and AM 0300
 07/07/1999 Wed (JM4)

10446.0 V2a ID 44723 46011 25332 - YL/SS - rpt of 0206Z on 12165
 AM 0300 05/07/1999 Mon (MS)
 10446.0 V2a rptg 55533 65301 82301 AM 0300 28/07/1999 Wed (JM4)
 10470.0 M31 rptg VVV DE FDC - dropped after 45 minutes CW 0100
 08/07/1999 Thu (MS)
 10484.0 E3 msg in progress.Notice LSB.Weak signal,not sure of
 frequency LSB 1730 21/07/1999 Wed (BA)
 10484.0 E3 "97087" //14487 and //12603 LSB 1600 22/07/1999 Thu (BA)
 10566.0 M8a ID 89573 86412 10611 - rpt of 1200Z on 9330 CW 1300
 12/07/1999 Mon (MS)
 10566.0 M8a ID 89572 86411 52333 - rpt of 1200Z on 9330 CW 1300
 11/07/1999 Sun (MS)
 10566.0 M8a ID 69903 05792 52331 - rpt of 1200Z on 9330 CW 1300
 09/07/1999 Fri (MS)
 10566.0 M8a ID 17942 99761 33973 - rpt of 1200Z on 9330 CW 1300
 05/07/1999 Mon (MS)
 10648 E10 multi-message YHF YL spelling her 5LGs USB 1600
 07/07/1999 Wed (JMM)
 10648.0 E10 in progress, obscured by CW USB 1635 13/07/1999 Tue (BA)
 10648.0 E10 in progress, weak and obscured by CW USB 1630 22/07/1999
 Thu (BA)
 10648.0 E10 "YHF" CW station in the background USB 1800 07/07/1999
 Wed (BA)
 10648.0 E10 YHF - no number - message USB 1800 07/07/1999 Wed (SI)
 10648.0 E10 several msgs: ?? ????? 76 TOIRY USB 1610 07/07/1999 Wed (GG)
 10648.0 E10 YHF 51 DFUOB USB 1800 07/07/1999 Wed (GG)
 10648.0 E10 in progress,CW in the background USB 1605 05/07/1999 Mon (BA)
 10648.0 E10 in progress,weak and obscured by CW USB 1605 18/07/1999
 Sun (BA)
 10648.0 E10 in progress,CW in the background USB 1635 05/07/1999 Mon (BA)
 10648.0 E10 in progress,obscured by CW USB 1805 19/07/1999 Mon (BA)
 10648.0 E10 in progress,partly obscured by a CW station USB 1805
 11/07/1999 Sun (BA)
 10648.0 E10 "YHF" weak and obscured by CW USB 1800 17/07/1999 Sat (BA)
 10648.0 E10 "YHF" very weak,CW in the background USB 1600 19/07/1999
 Mon (BA)
 10665.0 V5 //11491 in progress AM 0300 19/07/1999 Mon (JM4)
 10665.0 V5 //11491 rptg 631 Grupo ? AM 0300 08/07/1999 Thu (JM4)
 10665.0 V5 //11491 rptg 065 Grupo 121 AM 0300 01/07/1999 Thu (JM4)
 10714.5 M8a i/p groups RAUNA and DTWIN given during CW 0200
 27/07/1999 Tue (JM4)
 10820.0 E10 no callsign,but this string:"VLB18P46B55" USB 2200
 18/07/1999 Sun (BA)
 10820.0 E10 VLB 2 no message USB 2145 07/07/1999 Wed (SI)
 10820.0 E10 VLB 2 no msg usb 2045 12/07/1999 Mon (SI)
 10820.0 E10 VLB USB 0018 04/07/1999 Sun (SI)
 10820.0 E10 VLB 2 no msg usb 2145 10/07/1999 Sat (SI)
 10820.0 E10 //14866 VLB 2 no msg usb 1945 11/07/1999 Sun (SI)

10820.0 E10 in progress, one of the weakest signals I ever heard
 USB 2105 14/07/1999 Wed (BA)
 10820.0 E10 VLB USB 1845 06/07/1999 Tue (SI)
 10820.0 E10 //14866 VLB 2 no message USB 1845 07/07/1999 Wed (SI)
 10820.0 E10 VLB 2 no msg usb 1945 12/07/1999 Mon (SI)
 10820.0 E10 VLB 2 no message USB 2045 07/07/1999 Wed (SI)
 10820.0 E10 VLB USB 0020 05/07/1999 Mon (SI)
 10820.0 E10a on and on with no msg. //14866 and //12747 partly
 obscured by CW USB 1900 19/07/1999 Mon (BA)
 10820.0 E10a "VLB2" weak, USB 1900 13/07/1999 Tue (BA)
 10820.0 E10a VLB2 USB 2345 21/07/1999 Wed (GG)
 10820.0 E10a VLB2 USB 2245 21/07/1999 Wed (GG)
 10820.0 E10a VLB2 USB 2345 16/07/1999 Fri (GG)
 10820.0 E10a VLB2 USB 2245 12/07/1999 Mon (GG)
 10820.0 E10a VLB2 USB 2145 11/07/1999 Sun (GG)
 10820.0 E10a VLB2 USB 2045 11/07/1999 Sun (GG)
 10820.0 E10a VLB2 USB 2245 10/07/1999 Sat (GG)
 10820.0 E10a "VLB2" no msg. //14866 //12747 obscured by CW USB
 1930 20/07/1999 Tue (BA)
 10858.0 M8a ID 51193 39592 33971 CW 1200 03/07/1999 Sat (MS)
 10858.0 M8a ID 89571 05793 52332 CW 1200 10/07/1999 Sat (MS)
 10858.0 M8a ID 32251 CW 1205 06/07/1999 Tue (MS)
 10858.0 M8a ID 69902 05791 32253 CW 1200 08/07/1999 Thu (MS)
 10899.0 E17 rptg 371 371 371 00000 AM 0115 06/07/1999 Tue (JM4)
 10970.0 E03 MIW 2 no msg USB 2015 08/07/1999 Thu (SI)
 10970.0 E03 MIW 2 no msg USB 2115 08/07/1999 Thu (SI)
 10970.0 E03 MIW 2 no msg usb 2115 09/07/1999 Fri (SI)
 10970.0 E10 MIW2 USB 0215 09/07/1999 Fri (JM4)
 10970.0 E10 //13921 MIW2 USB 0115 15/07/1999 Thu (JM4)
 10970.0 E10 //13921 MIW2 USB 0115 14/07/1999 Wed (JM4)
 10970.0 E10 MIW 2 no message USB 1915 07/07/1999 Wed (SI)
 10970.0 E10 MIW 2 no msg usb 2015 12/07/1999 Mon (SI)
 10970.0 E10 MIW 2 no msg usb 1915 12/07/1999 Mon (SI)
 10970.0 E10 MIW 2 no msg usb 1915 11/07/1999 Sun (SI)
 10970.0 E10 //13921 MIW2 USB 0015 11/07/1999 Sun (JM4)
 10970.0 E10 //13921 MIW2 USB 0215 02/07/1999 Fri (JM4)
 10970.0 E10 //13921 MIW2 USB 0115 06/07/1999 Tue (JM4)
 10970.0 E10 //13921 MIW2 USB 0015 07/07/1999 Wed (JM4)
 10970.0 E10 //13921 MIW2 USB 0115 07/07/1999 Wed (JM4)
 10970.0 E10 //13921 MIW2 mixing w/M22 broadcast on USB 0315
 07/07/1999 Wed (JM4)
 10970.0 E10 //13921 MIW2 USB 0015 08/07/1999 Thu (JM4)
 10970.0 E10 //13921 MIW2 USB 0015 04/07/1999 Sun (JM4)
 10970.0 E10 //13921 MIW2 USB 0215 04/07/1999 Sun (JM4)
 10970.0 E10 //13921 MIW2 USB 0015 03/07/1999 Sat (JM4)
 10970.0 E10 //13921 MIW2 USB 0115 02/07/1999 Fri (JM4)
 10970.0 E10 MIW 2 no message USB 2015 07/07/1999 Wed (SI)
 10970.0 E10 //13921 MIW2 USB 0115 08/07/1999 Thu (JM4)

10970.0 E10 //13921 MIW2 USB 0215 08/07/1999 Thu (JM4)
 10970.0 E10 MIW 2 no msg USB 1915 08/07/1999 Thu (SI)
 10970.0 E10 CIO 2 no msg - still transmitting at USB 1915
 08/07/1999 Thu (SI)
 10970.0 E10 //13921 MIW2 USB 0015 09/07/1999 Fri (JM4)
 10970.0 E10 //13921 MIW2 USB 0115 09/07/1999 Fri (JM4)
 10970.0 E10a MIW2 USB 2115 11/07/1999 Sun (GG)
 10970.0 E10a MIW2 USB 2215 12/07/1999 Mon (GG)
 10970.0 E10a MIW2 USB 2015 11/07/1999 Sun (GG)
 10970.0 E10a MIW2 USB 2215 10/07/1999 Sat (GG)
 10970.0 E10a MIW2
 11430.0 V13 YL/CC w/flute interval AM 1500 09/07/1999 Fri (JM4)
 11430.0 V13 New Star YL/CC not parallel to 13750 AM 1201 21/07/1999
 Wed (SD)
 11431.0 M8a ID 45922 87353 - rpt of 0400Z on 10235 CW 0504
 06/07/1999 Tue (MS)
 11432.0 M8a ID 18.43 86182 CW 0805 09/07/1999 Fri (MS)
 11432.0 M8a ID 82752 48932 CW 0804 10/07/1999 Sat (MS)
 11432.0 M8a -IN PROGRESS- CW 0826 06/07/1999 Tue (MS)
 11461.0 V7 SS - ?x 403 403 403 1 3x 542 124 59845 ... 000 000
 AM 0006 06/07/1999 Tue (SI)
 11462.0 V7 Spanish Man OM/SS null msg "403 403 403 000" last "0"
 runs into "4" AM 0601 13/07/1999 Tue (SD)
 11462.0 V7 Spanish Man OM/SS call-up 403 id 542 grp 124 AM 0600
 06/07/1999 Tue (SD)
 11462.0 V7 Spanish Man OM/SS call-up 403 id 873 grp 97 AM 0600
 20/07/1999 Tue (SD)
 11491.0 V5 //10665 in progress AM 0300 19/07/1999 Mon (JM4)
 11491.0 V5 //10665 r[tg 065 Grupo 121 AM 0300 01/07/1999 Thu (JM4)
 11491.0 V5 //10665 rptg 631 Grupo ? AM 0300 08/07/1999 Thu (JM4)
 11491.0 V5 Rptg 631 groupo 216. Reception poor. AM 0300
 08/07/1999 Thu (JK)
 11513 S7 ending same as S25 sample of conet proj USB 2110
 12/07/1999 Mon (CD)
 11545 E3 YL/EE 1610 26/07/1999 Mon (HP)
 11545 E3 YL/EE //13375 //15682 1620 27/07/1999 Tues (HP)
 11545.0 E03 //9251//6959 USB 0020 05/07/1999 Mon (SI)
 11545.0 E03 //9251//6959 USB 2005 08/07/1999 Thu (SI)
 11545.0 E03 USB 1930 06/07/1999 Tue (SI)
 11545.0 E03 //9251 USB 0019 04/07/1999 Sun (SI)
 11545.0 E3 YL/EE 19222 2000 26/07/1999 Mon (HP)
 11545.0 E3 //13375 weak USB 1500 09/07/1999 Fri (JM4)
 11545.0 E3 //12603//13375 rptg 00215 USB 1500 08/07/1999 Thu (JM4)
 11545.0 E3 id 00215 82291 Ò USB 2000 04/07/1999 Sun (GG)
 11564.9 E10 EZI USB 2030 04/07/1999 Sun (GG)
 11564.9 E10 EZI 16 ECQYX USB 2100 11/07/1999 Sun (GG)
 11565.0 E10 VLB 2 no msg USB 1945 08/07/1999 Thu (SI)
 11565.0 E10 EZI -no number- 2 messages usb 2030 12/07/1999 Mon (SI)

11565.0 E10 YHF 2 no msg USB 2000 08/07/1999 Thu (SI)
11565.0 E10 EZI 40 VHKWD USB 1900 08/07/1999 Thu (GG)
11565.0 E10 EZI//6840 USB 1900 06/07/1999 Tue (SI)
11565.0 E10 EZI USB 0021 05/07/1999 Mon (SI)
11565.0 E10 //9130 EZI bad reception, seemed to end as "end of message one" USB 0020 05/07/1999 Mon (SI)
11565.0 E10 EZI -no number- message usb 1900 12/07/1999 Mon (SI)
11565.0 E10a EZI2 USB 1830 07/07/1999 Wed (GG)
11565.0 E10a EZI2 USB 1930 08/07/1999 Thu (GG)
11566.0 V2a rptg 58131 14292 53852 AM 0300 09/07/1999 Fri (JM4)
11629 E17 YL 0230 25/07/1999 Sun (MAD)
11629 E17 YL 0500 25/07/1999 Sun (MAD)
11629 E17 english lady 0500 25/07/1999 Sun (MAD)
11629 E17 english lady 0230 25/07/1999 Sun (MAD)
12062.0 V7 Spanish Man OM/SS call-up 403 id 542 grp 124 AM 0625 06/07/1999 Tue (SD)
12062.0 V7 Spanish Man OM/SS null msg "403 403 403 000" AM 0610 27/07/1999 Tue (SD)
12062.0 V7 Spanish Man OM/SS call-up 403 id 873 grp 97 AM 0620 20/07/1999 Tue (SD)
12062.0 V7 Spanish Man OM/SS null msg "403 403 403 000" last "0" runs into "4" AM 0610 13/07/1999 Tue (SD)
12093.0 M8a ID 51193 39592 33971 - rpt of 1200Z on 10858 CW 1300 03/07/1999 Sat (MS)
12093.0 M8a ID 17943 99762 32251 - rpt of 1205Z on 10858 CW 1300 06/07/1999 Tue (MS)
12093.0 M8a ID 69902 05791 32253 - rpt of 1200Z on 10858 CW 1300 08/07/1999 Thu (MS)
12093.0 M8a ID 89571 05793 52332 - rpt of 1200Z on 10858 CW 1300 10/07/1999 Sat (MS)
12135 atencion parrot squawk in background 01.5 14/07/1999 Wed (JM4)
12135.0 V2a rptg 88323 51911 69553 AM 0200 01/07/1999 Thu (JM4)
12135.0 V2a in progress AM 0200 15/07/1999 Thu (JM4)
12135.0 V2a rptg 18042 51912 09511 AM 0200 08/07/1999 Thu (JM4)
12142.0 V? -IN PROGRESS- YL/SS - PAUSES BETWEEN EVERY 10 GROUPS AM 0725 04/07/1999 Sun (MS)
12156.0 XP low tones AM 2035 20/07/1999 Tue (MH)
12165.0 V2a rptg 56483 46013 01091 AM 0200 19/07/1999 Mon (JM4)
12165.0 V2a ID 46011 25332 - YL/SS AM 0206 05/07/1999 Mon (MS)
12180.0 V2a rptg 55533 65301 82301 AM 0200 28/07/1999 Wed (JM4)
12180.0 V2a rptg 12523 48103 56061 AM 0200 21/07/1999 Wed (JM4)
12180.0 V2a in progress AM 0200 14/07/1999 Wed (JM4)
12184.0 M14a 5FGx2, T=0 - (1st msg)(652 abt 2 min)(2nd msg)(ends BT 908 908 245 245 00000) - CW 2204 03/07/1999 Sat (MS)
12197.0 E5 TCS YL/EE id 848 count 111 //10423 AM 2200 28/07/1999 Wed (SD)
12198 E5 id 127 USB 2000 12/07/1999 Mon (CD)
12198.0 E5 AM 2000 19/07/1999 Mon (DK)
12215.0 V2a rptg 58581 44522 10192 AM 0200 02/07/1999 Fri (JM4)

12215.0 V2a rptg 12811 35142 54491 AM 0000 03/07/1999 Sat (JM4)
12215.0 V2a ID 12811 35142 74491 - YL/SS AM 0000 03/07/1999 Sat (MS)
12215.0 V2a ? carrier - no audio AM 0200 09/07/1999 Fri (JM4)
12215.0 V2a rptg 12813 48951 54493 AM 0000 17/07/1999 Sat (JM4)
12215.0 V2a in progress after 13375 switch AM 0000 24/07/1999 Sat (JM4)
12229.0 E5 TCS YL/EE id 487 count 112 AM 2200 26/07/1999 Mon (SD)
12295.0 M? POSS M13-IN PROGRESS-5FGx2,T=0 - BTx2 39x2 41x2 919x3
95x2 12x2 BTx2 (MSG) BTx2 CW 2206 06/07/1999 Tue (MS)
12295.0 M? IN PROGRESS 5FGx2 T=0 - BTx2 39x2 41x2 919x3 95x2 12x2
BTx2 (MSG) BTx2 95x2 12x2 CW 2207 05/07/1999 Mon (MS)
12300.5 V5 //14421 rptg 407 Grupo 195 AM 0300 06/07/1999 Tue (JM4)
12300.5 V5 //14421 rptg 407 Grupo 159 AM 0300 10/07/1999 Sat (JM4)
12300.5 V5 //14421 rptg 407 Grupo 195 AM 0300 27/07/1999 Tue (JM4)
12300.5 V5 //14421 rptg 729 Grupo 159 AM 0300 03/07/1999 Sat (JM4)
12300.5 V5 //14421 rptg 407 Grupo 195 AM 0300 20/07/1999 Tue (JM4)
12603 E3 YL/EE extr. Utility-QRM 2000 27/07/1999 Tues (HP)
12603 E3 YL/EE 03417 //14487 1700 21/07/1999 Wed (HP)
12603 E3 YL/EE 55015 //7337, //9251 strong Utility_QRM 2100
27/07/1999 Tues (HP)
12603 E3 YL/EE 55015 //7337//9251 CW-QRM 2200 21/07/1999 Wed (HP)
12603.0 E3 id 53361 81859 Ò USB 1400 05/07/1999 Mon (GG)
12603.0 E3 //11545//13375 rptg 00215 USB 1500 08/07/1999 Thu (JM4)
12634 E17 atencion parrot squawk in background 0150 14/07/1999
Wed (JM4)
12634.0 V2 Parrot heard on carrier, then 238/01 01/71 AM 0200
15/07/1999 Thu (JM4)
12634.0 V2? carrier up - no audio appeared AM 0200 08/07/1999 Thu (JM4)
12634.0 V2a in progress AM 0200 01/07/1999 Thu (JM4)
12747.0 E10 VLB45L36F19T48B1338 USB 0745 20/07/1999 Tue (GG)
12747.0 E10 VLB45L36F19T48B1338 USB 0647 20/07/1999 Tue (GG)
12747.0 E10a VLB2 USB 2245 21/07/1999 Wed (GG)
12747.0 E10a VLB2 USB 2345 16/07/1999 Fri (GG)
12747.0 E10a VLB2 USB 1645 07/07/1999 Wed (GG)
12747.0 E10a VLB2 USB 1745 07/07/1999 Wed (GG)
12747.0 E10a VLB2 USB 1845 07/07/1999 Wed (GG)
12747.0 E10a VLB2 USB 2245 10/07/1999 Sat (GG)
12747.0 E10a VLB2 USB 2045 11/07/1999 Sun (GG)
12747.0 E10a VLB2 USB 2145 11/07/1999 Sun (GG)
12747.0 E10a "VLB2" no msg.,obscured by CW // 14866 fair,
//10820 weakest of all USB 1900 17/07/1999 Sat (BA)
12747.0 E10a VLB2 USB 2245 12/07/1999 Mon (GG)
12747.0 E10a VLB2 USB 0545 20/07/1999 Tue (GG)
12747.0 E10a VLB2 USB 2345 21/07/1999 Wed (GG)
12906.0 E5 693 COUNT ?15 V.WEAK USB 0012 14/07/1999 Wed (SG)
13352 E17 english lady 0200 25/07/1999 Sun (MAD)
13352 E17 YL 0200 25/07/1999 Sun (MAD)
13357 E3 YL/EE 1520 26/07/1999 Mon (HP)
13362.0 V7 Spanish Man 0M/SS call-up 403 id 542 grp 124 AM

0651 06/07/1999 Tue (SD)
 13362.0 V7 Spanish Man OM/SS call-up 403 id 873 grp 97 AM
 0640 20/07/1999 Tue (SD)
 13375 E3 YL/EE //11545 //15682 1620 27/07/1999 Tues (HP)
 13375.0 E3 //11545 weak USB 1500 09/07/1999 Fri (JM4)
 13375.0 E3 "03417" USB 1900 16/07/1999 Fri (BA)
 13375.0 E3 extremely weak USB 1500 17/07/1999 Sat (JM4)
 13375.0 E3 in progress USB 1635 13/07/1999 Tue (BA)
 13375.0 E3 "25443" group count 205 USB 1500 12/07/1999 Mon (BA)
 13375.0 E3 "66891" USB 1600 05/07/1999 Mon (BA)
 13375.0 E3 in progress USB 1730 13/07/1999 Tue (BA)
 13375.0 E3 "21299" // 12603 obscured USB 1500 15/07/1999 Thu (BA)
 13375.0 E3 "55015" //12603 obscured as usual USB 1500 16/07/1999 Fri (BA)
 13375.0 E3 //12603,jammed as usual."00215" USB 1500 01/07/1999 Thu (BA)
 13375.0 E3 "97087" USB 1700 16/07/1999 Fri (BA)
 13375.0 E3 "47661" strong noise USB 1700 11/07/1999 Sun (BA)
 13375.0 E3 "55015" same callsign as July 16 at 1500UT on same freq
 // 12603 obscured USB 1600 17/07/1999 Sat (BA)
 13375.0 E3 "21299" same callsign as July 16 at 1600UT and July 15
 at 1500 UTC both on same freq USB 1700 17/07/1999 Sat (BA)
 13375.0 E3 "97087" same callsign as July 16 at 1700UT on same freq
 USB 1800 17/07/1999 Sat (BA)
 13375.0 E3 "47663" USB 1700 18/07/1999 Sun (BA)
 13375.0 E3 "03415" could not hear // 12603 USB 1500 19/07/1999 Mon (BA)
 13375.0 E3 "97097" USB 1600 19/07/1999 Mon (BA)
 13375.0 E3 "70531" //12603 obscured USB 1500 22/07/1999 Thu (BA)
 13375.0 E3 "55015" // 12603 obscured as usual USB 1500 23/07/1999 Fri (BA)
 13375.0 E3 "21229" same callsign as July 15 at 1500UT on 13375 USB
 1600 16/07/1999 Fri (BA)
 13375.0 E3 extremely weak USB 1600 03/07/1999 Sat (JM4)
 13375.0 E3 "66891" //12603 obscured as usual USB 1600 12/07/1999 Mon (BA)
 13375.0 E3 //11545//12603 rptg 00215 USB 1500 08/07/1999 Thu (JM4)
 13375.0 V2a false start on this wrong freq AM 0000 24/07/1999 Sat (JM4)
 13375.0 V2a ID 12811 35142 74491 - YL/SS AM 2300 02/07/1999 Fri (MS)
 13380.0 G6 ctrl-msg 564 564 00000 USB 2020 17/07/1999 Sat (MH)
 13380.0 V2 Spanish Lady YL/SS in progress AM 0608 28/07/1999 Wed (SD)
 13390.0 S7 ID:"482" then "916-93" same as July 13,1999 AM 1630
 14/07/1999 Wed (BA)
 13436.0 V2a false start, then rptg 53661 51913 09512 AM 0100
 15/07/1999 Thu (JM4)
 13436.0 V2a rptg 88323 51911 69553 AM 0100 01/07/1999 Thu (JM4)
 13438.0 XP low tones AM 2020 20/07/1999 Tue (MH)
 13443.0 E05 not sure on ID - groups: 3 digits + 2 am 1822
 12/07/1999 Mon (SI)
 13444.0 E5 "346-1234567890" USB 1800 17/07/1999 Sat (BA)
 13444.0 E5 "346-1234567890" //14905 and 10900 (not sure because of
 extreme weakness of signal USB 1800 19/07/1999 Mon (BA)
 13449.0 ? YL/SS - IN PROGRESS - AM 1304 10/07/1999 Sat (MS)

13450.0 E5 541 JAMMED USB 0017 02/07/1999 Fri (SG)
13450.0 E5 "541-1234567890".Two parallels: //14448 and //10446 the
weakest USB 1700 11/07/1999 Sun (BA)
13450.1 E5 541 POOR DUE TO JAMMING USB 0017 04/07/1999 Sun (SG)
13452.0 V5 //15651 rptg 772 Grupo 113 AM 0100 09/07/1999 Fri (JM4)
13452.0 V5 //15651 rptg 940 Grupo 101 AM 0100 14/07/1999 Wed (JM4)
13452.0 V5 //15651 rptg 490 Grupo 101 AM 0100 23/07/1999 Fri (JM4)
13452.0 V5 //15651 rptg 940 Grupo 101 AM 0100 28/07/1999 Wed (JM4)
13452.0 V5 //15651 rptg 772 Grupo 113 AM 0100 07/07/1999 Wed (JM4)
13464.0 XP low tones AM 2120 21/07/1999 Wed (MH)
13465.0 E5 814 COUNT 114 USB 0018 01/07/1999 Thu (SG)
13465.0 E5 814 COUNT 114 WEAK USB 0018 04/07/1999 Sun (SG)
13465.0 E5 "814-1234567890" USB 1800 11/07/1999 Sun (BA)
13533 E10 YL/EE EZI 1600 21/07/1999 Wed (HP)
13533.0 E10 Mossad YL/EE id EZI grp 46 //17410 AM 0530 04/07/1999 Sun (SD)
13533.0 E10 EZI with 92 groups,strong USB 1700 01/07/1999 Thu (BA)
13533.0 E10 in progress,faint CW in the background USB 1705
06/07/1999 Tue (BA)
13533.0 E10 "EZI" group count 92.Slow delivery. USB 1700
08/07/1999 Thu (BA)
13533.0 E10 in progress.Group count 92,went off the air without
finishing the repetition USB 1705 11/07/1999 Sun (BA)
13533.0 E10 EZI2 USB 0200 21/07/1999 Wed (JM4)
13533.0 E10 92 XHAIQ USB 1700 07/07/1999 Wed (GG)
13533.0 E10 "EZI" group count 92 USB 1700 13/07/1999 Tue (BA)
13533.0 E10 "EZI" group count 92 USB 1700 14/07/1999 Wed (BA)
13533.0 E10 "EZI" group count 40 USB 1600 19/07/1999 Mon (BA)
13533.0 E10 EZI2 USB 0200 19/07/1999 Mon (JM4)
13533.0 E10 in progress USB 1705 19/07/1999 Mon (BA)
13533.0 E10 missed callsign,group count 41 USB 1700 18/07/1999 Sun (BA)
13533.0 E10 "EZI" group count 40 USB 1600 18/07/1999 Sun (BA)
13533.0 E10 in progress USB 1705 16/07/1999 Fri (BA)
13533.0 E10 "EZI2"no msg USB 1800 19/07/1999 Mon (BA)
13533.0 E10a EZI2 USB 1830 07/07/1999 Wed (GG)
13533.0 E10a EZI2 USB 0200 18/07/1999 Sun (GG)
13535 E10 YL/EE extr. Weak, but readable 1710 21/07/1999 Wed (HP)
13555.0 E5 //15732 rptg 535 Count 215 AM 1400 09/07/1999 Fri (JM4)
13750.0 V13 in progress AM 1500 08/07/1999 Thu (JM4)
13750.0 V13 New Star YL/CC not parallel to 11430 AM 1202
21/07/1999 Wed (SD)
13750.0 V13 in progress AM 1400 09/07/1999 Fri (JM4)
13750.0 V13 YL/CC w/flute interval signal AM 1500 06/07/1999 Tue (JM4)
13750.0 V13 4FGx2 in progress AM 1500 17/07/1999 Sat (JM4)
13750.0 V13 YL/CC w/flute interval AM 1500 09/07/1999 Fri (JM4)
13750.0 V13 very weak AM 1600 03/07/1999 Sat (JM4)
13880 E17 YL 0400 25/07/1999 Sun (MAD)
13880 E17 english lady 0400 25/07/1999 Sun (MAD)
13906.0 E5 TCS YL/EE id 579 //15732 AM 1200 21/07/1999 Wed (SD)

13921.0 E10 //10970 MIW2 USB 0015 08/07/1999 Thu (JM4)
 13921.0 E10 //10970 MIW2 USB 0015 03/07/1999 Sat (JM4)
 13921.0 E10 MIW2 USB 0215 09/07/1999 Fri (JM4)
 13921.0 E10 //10970 MIW2 USB 0215 02/07/1999 Fri (JM4)
 13921.0 E10 //10970 MIW2 USB 0115 09/07/1999 Fri (JM4)
 13921.0 E10 //10970 MIW2 USB 0015 09/07/1999 Fri (JM4)
 13921.0 E10 //10970 MIW2 USB 0115 02/07/1999 Fri (JM4)
 13921.0 E10 //10970 MIW2 USB 0115 08/07/1999 Thu (JM4)
 13921.0 E10 //10970 MIW2 USB 0115 14/07/1999 Wed (JM4)
 13921.0 E10 //10970 MIW2 mixing w/M22 broadcast on USB 0315
 07/07/1999 Wed (JM4)
 13921.0 E10 //10970 MIW2 USB 0115 07/07/1999 Wed (JM4)
 13921.0 E10 //10970 MIW2 USB 0015 07/07/1999 Wed (JM4)
 13921.0 E10 //10970 MIW2 USB 0115 06/07/1999 Tue (JM4)
 13921.0 E10 //10970 MIW2 USB 0215 04/07/1999 Sun (JM4)
 13921.0 E10 //13921 MIW2 USB 0015 04/07/1999 Sun (JM4)
 13921.0 E10 //10970 MIW2 USB 0215 08/07/1999 Thu (JM4)
 13921.0 E10 //10970 MIW2 USB 0115 15/07/1999 Thu (JM4)
 13921.0 E10 //10970 MIW2 USB 0015 11/07/1999 Sun (JM4)
 13921.0 E10a MIW2 USB 1715 07/07/1999 Wed (GG)
 13921.0 E10a MIW2 USB 2215 10/07/1999 Sat (GG)
 13921.0 E10a MIW2 USB 2015 11/07/1999 Sun (GG)
 13921.0 E10a MIW2 USB 2115 11/07/1999 Sun (GG)
 13921.0 E10a MIW2 USB 2315 12/07/1999 Mon (GG)
 13921.0 M22 4XZ marker atop E10 broadcast CW 0315 07/07/1999 Wed (JM4)
 14421.0 E5 "375-1234567890" // 10423 with two msg AM 2100
 20/07/1999 Tue (BA)
 14421.0 V5 //12300.5 rptg 729 Grupo 159 AM 0300 03/07/1999 Sat (JM4)
 14421.0 V5 //12300.5 rptg 407 Grupo 195 AM 0300 27/07/1999 Tue (JM4)
 14421.0 V5 //12300.5 rptg 407 Grupo 195 AM 0300 06/07/1999 Tue (JM4)
 14421.0 V5 //12300.5 rptg 407 Grupo 195 AM 0300 20/07/1999 Tue (JM4)
 14421.0 V5 //12300.5 rptg 407 Grupo 159 AM 0300 10/07/1999 Sat (JM4)
 14425.0 E5 TCS YL/EE id 375 count 140 AM 2101 28/07/1999 Wed (SD)
 14448.0 E5 "541-1234567890" same callsign as July 11,1700UT on same
 frequency USB 1700 18/07/1999 Sun (BA)
 14448.0 E5 541-1234567890 //13450 with QRM USB 1700 16/07/1999 Fri (BA)
 14448.0 E5 541 COUNT 212 V.WEAK USB 0017 04/07/1999 Sun (SG)
 14448.0 E5 541 COUNT 212 STRONG USB 0017 02/07/1999 Fri (SG)
 14487 E3 YL/EE 83745 1400 26/07/1999 Mon (HP)
 14487 E3 YL/EE 03417 //12603 1700 21/07/1999 Wed (HP)
 14487.0 E3 //15682//16084 rptg 47661 USB 1400 09/07/1999 Fri (JM4)
 14487.0 E3 // 12603 USB 1700 14/07/1999 Wed (BA)
 14487.0 E3 in progress,weak but numbers audible USB 1205 07/07/1999
 Wed (BA)
 14487.0 E3 in progress USB 1300 09/07/1999 Fri (JM4)
 14487.0 E3 extremely weak USB 1600 08/07/1999 Thu (JM4)
 14487.0 e3 // with 15682 & 16084 missed call up first time for all
 three freq since the fal USB 1215 07/07/1999 Wed (ARQ3)

14487.0 E3 id 53361 81859 Ö USB 1400 05/07/1999 Mon (GG)
14487.0 E3 "25443" no jamming USB 1700 07/07/1999 Wed (BA)
14600 E5 weaker than 12190 USB 2000 12/07/1999 Mon (CD)
14649.0 M22 //10356 4XZ in traffic CW 0000 07/07/1999 Wed (JM4)
14649.0 M22 //10356//18482 4XZ in tfc CW 0100 23/07/1999 Fri (JM4)
14649.0 M22 //10970 4XZ in traffic CW 0200 14/07/1999 Wed (JM4)
14649.0 M22 //10356 4XZ in traffic CW 0000 11/07/1999 Sun (JM4)
14649.0 M22 //10356//18482 4XZ in traffic CW 0000 17/07/1999 Sat (JM4)
14649.0 M22 //10356//18482 4XZ marker CW 0200 18/07/1999 Sun (JM4)
14649.0 M22 //10356 4XZ marker CW 0300 10/07/1999 Sat (JM4)
14649.0 M22 //10356 4XZ in traffic CW 2300 08/07/1999 Thu (JM4)
14649.0 M22 //10356//18482 4XZ marker CW 0000 19/07/1999 Mon (JM4)
14649.0 M22 //10356//18482 4XZ marker CW 2300 19/07/1999 Mon (JM4)
14649.0 M22 //10356//18482 4XZ in traffic CW 0000 21/07/1999 Wed (JM4)
14649.0 M22 //10356 4XZ in traffic CW 2300 14/07/1999 Wed (JM4)
14649.0 M22 //10356//18482 4XZ in tfc CW 0000 24/07/1999 Sat (JM4)
14649.0 M22 //10356//18482 4XZ in tfc CW 2300 26/07/1999 Mon (JM4)
14649.0 M22 //10356//18484 4XZ in tfc CW 0100 28/07/1999 Wed (JM4)
14649.0 M22 //10356 4XZ marker CW 0100 06/07/1999 Tue (JM4)
14649.0 M22 //10356 4XZ marker CW 0100 04/07/1999 Sun (JM4)
14649.0 M22 //10356 4XZ in traffic // CW 0000 03/07/1999 Sat (JM4)
14649.0 M22 4XZ in traffic CW 0100 02/07/1999 Fri (JM4)
14649.0 M22 4XZ in traffic CW 0000 01/07/1999 Thu (JM4)
14649.0 M22 //10356 4XZ marker CW 0000 08/07/1999 Thu (JM4)
14729.0 M12 rptg 750x3 1 (missed preamble) BT (MSG 5FGx1) 000 000
CW 2021 06/07/1999 Tue (MS)
14739.0 E5 //16198 in progress AM 1300 09/07/1999 Fri (JM4)
14865.8 E10a VLB2 drifting frequency USB 1545 06/07/1999 Tue (GG)
14865.9 E10a VLB2 USB 0845 26/07/1999 Mon (GG)
14866.0 E10 VLB45L36F19T48B1338 USB 0745 20/07/1999 Tue (GG)
14866.0 E10 VLB15P54T1844 USB 1100 13/07/1999 Tue (GG)
14866.0 E10 //10820 VLB 2 no msg usb 1946 11/07/1999 Sun (SI)
14866.0 E10 Mossad YL/EE id VLB2 AM 1145 21/07/1999 Wed (SD)
14866.0 E10 VLB45L36F19T48B1338 USB 0647 20/07/1999 Tue (GG)
14866.0 E10 //10820 VLB 2 no message USB 1845 07/07/1999 Wed (SI)
14866.0 E10 VLB16T58F13 USB 0847 13/07/1999 Tue (GG)
14866.0 E10 VLB18P16R56F4 USB 1313 17/07/1999 Sat (GG)
14866.0 E10 VLB2 USB 0300 19/07/1999 Mon (JM4)
14866.0 E10 VLB2 USB 0300 20/07/1999 Tue (JM4)
14866.0 E10 VLB16T58F1? USB 0747 13/07/1999 Tue (GG)
14866.0 E10a VLB2 USB 2245 21/07/1999 Wed (GG)
14866.0 E10a VLB2 USB 0545 20/07/1999 Tue (GG)
14866.0 E10a VLB2 USB 1745 07/07/1999 Wed (GG)
14866.0 E10a VLB2 USB 2345 21/07/1999 Wed (GG)
14866.0 E10a "VLB2" on and on,no msg. //12747 //10820 best copy
USB 1900 16/07/1999 Fri (BA)
14866.0 E10a VLB2 USB 0300 18/07/1999 Sun (GG)
14866.0 E10a VLB2 USB 2345 16/07/1999 Fri (GG)

14866.0 E10a VLB2 USB 2245 12/07/1999 Mon (GG)
14866.0 E10a VLB2 USB 2145 11/07/1999 Sun (GG)
14866.0 E10a VLB2 USB 2245 10/07/1999 Sat (GG)
14866.0 E10a VLB2 USB 1645 07/07/1999 Wed (GG)
14866.0 E10a VLB2 USB 1445 06/07/1999 Tue (GG)
14866.0 E10a VLB2 USB 2045 11/07/1999 Sun (GG)
14930.0 M16 rptg VVV DE 8BY 012/020/5.2 AR CW 2300 07/07/1999 Wed (MS)
14930.0 M16 rptg VVV DE 8BY 012/020/5.2 AR CW 2300 07/07/1999 Wed (MS)
15388.0 V13 4FGx2 in progress AM 1500 06/07/1999 Tue (JM4)
15388.0 V13 very weak AM 1500 17/07/1999 Sat (JM4)
15651.0 V5 //13452 rptg 772 Grupo 113 AM 0100 07/07/1999 Wed (JM4)
15651.0 V5 //13452 rptg 772 Grupo 113 AM 0100 09/07/1999 Fri (JM4)
15651.0 V5 //13452 rptg 940 Grupo 101 AM 0100 14/07/1999 Wed (JM4)
15651.0 V5 //13453 rptg 490 Grupo 101 AM 0100 23/07/1999 Fri (JM4)
15651.0 V5 //13452 rptg 940 Grupo 101 AM 0100 28/07/1999 Wed (JM4)
15682 E3 YL/EE //11545 //13375 BC-QRM 15685 (WWCR?) 1630
27/07/1999 Tues (HP)
15682.0 E3 //14487//16084 rptg 47661 USB 1400 09/07/1999 Fri (JM4)
15732.0 E5 //13555 rptg 535 Count 215 AM 1400 09/07/1999 Fri (JM4)
15732.0 E5 693 COUNT WEAK USB 0012 14/07/1999 Wed (SG)
15732.0 E5 TCS YL/EE id 579 //13906 AM 1200 21/07/1999 Wed (SD)
15822.0 E5 313 COUNT 98 WEAK USB 0017 13/07/1999 Tue (SG)
15822.0 E5 313 COUNT 98 USB 0017 14/07/1999 Wed (SG)
15980.0 E10 EZI 84 UIAFE USB 0600 20/07/1999 Tue (GG)
15980.0 E10 EZI 16 ECQYX USB 2100 11/07/1999 Sun (GG)
15980.0 E10 EZI 102 P???? USB 1100 12/07/1999 Mon (GG)
15980.0 E10 EZI 102 PQBGN USB 1100 13/07/1999 Tue (GG)
15980.0 E10 EZI 2 msgs: 16 PJMML 14 XWXJ? USB 1130 13/07/1999 Tue (GG)
15980.0 E10a EZI2
16198.0 E5 654 COUNT 215 WEAK USB 0012 14/07/1999 Wed (SG)
16273.0 E5 313 V.WEAK USB 0017 13/07/1999 Tue (SG)
16346.0 E7 5ngs non rpt, E om, ends 000 000 at 1322 AM 1310
10/07/1999 Sat (MH)
17050.0 M22 //10046 4XZ in traffic CW 0000 21/07/1999 Wed (JM4)
17050.0 M22 //10046 4XZ marker CW 0100 28/07/1999 Wed (JM4)
17050.0 M22 //10046 4XZ marker CW 2300 26/07/1999 Mon (JM4)
17050.0 M22 //10046 4XZ marker CW 0100 23/07/1999 Fri (JM4)
17050.0 M22 //10046 4XZ marker CW 2300 19/07/1999 Mon (JM4)
17050.0 M22 //10046 4XZ marker CW 0000 19/07/1999 Mon (JM4)
17050.0 M22 //10046 4XZ in traffic CW 0200 18/07/1999 Sun (JM4)
17050.0 M22 //10046 4XZ marker CW 0000 17/07/1999 Sat (JM4)
17050.0 M22 //14649 4XZ marker CW 0000 24/07/1999 Sat (JM4)
17384.0 V2 rptg A 958/05 and 05/56 AM 2300 08/07/1999 Thu (JM4)
17409.9 E10 EZI 43 SDAUE USB 0930 12/07/1999 Mon (GG)
17409.9 E10 EZI 43 SDAUE USB 0930 20/07/1999 Tue (GG)
17409.9 E10 EZI 121 FRHLC USB 0930 22/07/1999 Thu (GG)
17409.9 E10 EZI 2 msgs: 36 RWSES 90 SONKA USB 0830 22/07/1999 Thu (GG)
17409.9 E10 EZI 2 msgs: 36 RWSES 90 SONKA USB 0830 22/07/1999 Thu (GG)

17409.9 E10 EZI 83 BOCPG USB 0830 26/07/1999 Mon (GG)
17409.9 E10 EZI 84 UIAFE USB 0600 20/07/1999 Tue (GG)
17409.9 E10 EZI 102 P???? USB 1100 12/07/1999 Mon (GG)
17409.9 E10 EZI 2 msgs: 68 KAD0E 68 NZAFQ USB 0830 13/07/1999 Tue (GG)
17409.9 E10 EZI 26 XGBGW USB 1530 06/07/1999 Tue (GG)
17409.9 E10 EZI 2 msgs: 36 RWSES 90 SONKA USB 0830 20/07/1999 Tue (GG)
17409.9 E10a EZI2 USB 0200 18/07/1999 Sun (GG)
17409.9 E10a EZI2 USB 0800 20/07/1999 Tue (GG)
17409.9 E10a EZI2 USB 1230 13/07/1999 Tue (GG)
17409.9 E10a EZI2 USB 0800 13/07/1999 Tue (GG)
17409.9 E10a EZI2 USB 1230 12/07/1999 Mon (GG)
17410.0 E10 EZI 102 PQBGN USB 1100 13/07/1999 Tue (GG)
17410.0 E10a VLB2 USB 0300 18/07/1999 Sun (GG)
17499 E3a very weak USB 2200 12/07/1999 Mon (CD)
17499 E4 YL/EE Cherry Ripe 1320 21/07/1999 Wed (HP)
17499 E4 YL/EE 85251 start =07 min. 1300 26/07/1999 Mon (HP)
17499.0 E4 in progress USB 2206 04/07/1999 Sun (GG)
17499.0 E4 //22108 rptg 32455 USB 0000 15/07/1999 Thu (JM4)
17499.0 E4 //22108 rptg 83980 USB 2300 26/07/1999 Mon (BA)
17499.0 E4 Cherry Ripe YL/EE id 72295 USB 2203 15/07/1999 Thu (SD)
17499.0 E4 Cherry Ripe YL/EE id 31866 //22108 USB 2301 06/07/1999 Tue (SD)
17499.0 E4 //22108 rptg 83980 USB 0000 19/07/1999 Mon (JM4)
17499.0 E4 //22108 rptg 72295 USB 2300 14/07/1999 Wed (JM4)
17499.0 E4 55537 WEAKE USB 0012 14/07/1999 Wed (SG)
17499.0 E4 Cherry Ripe, Guam, with YL/EE/5FG in progress. Moderate strength. Signature tune USB 1338 13/07/1999 Tue (BM)
17499.0 E4 01217 WEAKE USB 0012 12/07/1999 Mon (SG)
17499.0 E4 01217 V.WEAKE USB 0013 12/07/1999 Mon (SG)
17499.0 E4 //22108 weak USB 0000 07/07/1999 Wed (JM4)
17499.0 E4 //22108 rptg 80719 USB 0000 01/07/1999 Thu (JM4)
17499.0 E4 36434 V.WEAKE USB 0012 12/07/1999 Mon (SG)
17499.0 E5 56263 WEAKE USB 0012 02/07/1999 Fri (SG)
18177.9 E10a MIW2 USB 1515 06/07/1999 Tue (GG)
18178.0 E10a MIW2 USB 1117 13/07/1999 Tue (GG)
18178.7 E10a MIW2 USB 0816 16/07/1999 Fri (GG)
18481.0 M22 4XZ w/ 5L msgs CW 2226 20/07/1999 Tue (TS)
18481.0 M22 rptg VVV DE 4XZ BT BT (INT0 MSG) CW 2108 06/07/1999 Tue (MS)
18482.0 M22 //10356//14649 4XZ in traffic CW 0000 17/07/1999 Sat (JM4)
18482.0 M22 //10356//14649 4XZ marker CW 0200 18/07/1999 Sun (JM4)
18482.0 M22 //10356//14649 4XZ marker CW 0000 19/07/1999 Mon (JM4)
18482.0 M22 //10356//14649 4XZ marker CW 2300 19/07/1999 Mon (JM4)
18482.0 M22 //10356//14649 4XZ in traffic CW 0000 21/07/1999 Wed (JM4)
18482.0 M22 //10356//14649 4XZ in tfc CW 0100 23/07/1999 Fri (JM4)
18482.0 M22 //10356//14649 4XZ in tfc CW 0000 24/07/1999 Sat (JM4)
18482.0 M22 //10356//14649 4XZ in tfc CW 2300 26/07/1999 Mon (JM4)
18482.0 M22 //10356//14649 4XZ in tfc CW 0100 28/07/1999 Wed (JM4)
19714.9 E10 EZI 121 FRHLC USB 0930 22/07/1999 Thu (GG)
19714.9 E10 EZI 83 BOCPG USB 0830 26/07/1999 Mon (GG)

19714.9 E10 EZI 2 msgs: 36 RWSES 90 SONKA USB 0830 22/07/1999 Thu (GG)
19714.9 E10 EZI 43 SDAUE USB 0930 09/07/1999 Fri (GG)
19715.0 E10 EZI 2 msgs: 68 KAD0E 68 NZAFQ USB 0830 13/07/1999 Tue (GG)
19715.0 E10a EZI2 USB 0800 13/07/1999 Tue (GG)
19884.0 E4 //21866 rptg 62183 USB 0100 06/07/1999 Tue (JM4)
20474 E3 YL/EE 1010 26/07/1999 Mon (HP)
20474.0 E4 62183 WEAK USB 0010 12/07/1999 Mon (SG)
20474.0 E4 80715 WEAK USB 0010 13/07/1999 Tue (SG)
20474.0 E4 36434 WEAK USB 0010 14/07/1999 Wed (SG)
20740.0 E10 VLB15P54T1844 (still on at 1205z) USB 1100 13/07/1999 Tue (GG)
20740.0 E10 VLB18P16R56F4 USB 1313 17/07/1999 Sat (GG)
21866.0 E4 rptg 32455 USB 0100 21/07/1999 Wed (JM4)
21866.0 E4 rptg 7229__ USB 0100 27/07/1999 Tue (JM4)
21866.0 E4 rptg 32455 USB 0100 28/07/1999 Wed (JM4)
21866.0 E4 extremely weak USB 0100 19/07/1999 Mon (JM4)
21866.0 E4 rptg 34448 USB 0100 15/07/1999 Thu (JM4)
21866.0 E4 rptg 80715 USB 0100 14/07/1999 Wed (JM4)
21866.0 E4 weak USB 0100 09/07/1999 Fri (JM4)
21866.0 E4 //19884 rptg 62183 USB 0100 06/07/1999 Tue (JM4)
21866.0 E4 extremely weak USB 0100 07/07/1999 Wed (JM4)
21866.0 E4 rptg 72295 USB 0100 20/07/1999 Tue (JM4)
22108.0 E4 rptg 32815 USB 0000 20/07/1999 Tue (JM4)
22108.0 E4 rptg 32815 USB 0000 27/07/1999 Tue (JM4)
22108.0 E4 //17499 rptg 83980 USB 2300 26/07/1999 Mon (JM4)
22108.0 E4 Cherry Ripe YL/EE id 31866 //17499 USB 2301 06/07/1999 Tue (SD)
22108.0 E4 //17499 rptg 80719 USB 0000 01/07/1999 Thu (JM4)
22108.0 E4 rptg 32815 USB 2300 20/07/1999 Tue (JM4)
22108.0 E4 rptg 83980 USB 2300 19/07/1999 Mon (JM4)
22108.0 E4 //17499 rptg 32455 USB 0000 15/07/1999 Thu (JM4)
22108.0 E4 //17499 rptg 72295 USB 2300 14/07/1999 Wed (JM4)
22108.0 E4 01217? COULD JUST MAKE OUT TUNE USB 0013 12/07/1999 Mon (SG)
22108.0 E4 rptg 36434 USB 0000 09/07/1999 Fri (JM4)
22108.0 E4 rptg 80715 USB 2300 08/07/1999 Thu (JM4)
22108.0 E4 rptg 80715 USB 0000 08/07/1999 Thu (JM4)
22108.0 E4 extremely weak USB 2300 07/07/1999 Wed (JM4)
22108.0 E4 extremely weak USB 0000 02/07/1999 Fri (JM4)
22108.0 E4 //17499 rptg 83980 USB 0000 19/07/1999 Mon (JM4)
22108.0 E4 //17499 weak USB 0000 07/07/1999 Wed (JM4)
22108.0 E4 in progress USB 0000 21/07/1999 Wed (JM4)
23461.0 E4 39793 WEAK USB 0011 02/07/1999 Fri (SG)
23461.0 E4 01217 WEAK
23461.0 E4 36434 V.WEAK USB 0010 14/07/1999 Wed (SG)
23461.0 E4 01217 V.WEAK USB 0012 13/07/1999 Tue (SG)
23461.0 E4 36434 V.WEAK USB 0011 13/07/1999 Tue (SG)
23461.0 E4 80715 V.WEAK USB 0010 13/07/1999 Tue (SG)
23461.0 E4 COULD JUST MAKE OUT TUNE USB 0011 12/07/1999 Mon (SG)
23461.0 E4 62183 WEAK USB 0010 05/07/1999 Mon (SG)
23461.0 E4 55537 WEAK USB 0010 02/07/1999 Fri (SG)

23461.0 E4 80715 WEAK USB 0011 05/07/1999 Mon (SG)

Contributors:

AR - Adrian Rees, Chester, UK
ARQ3 - E. Texas, USA
BA - Black A., Italy
BM - Bob Margolis, Lake Forest, Ill., USA
CD - Captain Davros, UK
DK - Das Kaptain, UK
GG - Gallus Galus, W.Europe
GR - Greg
HFD - Hans Friedrich Dumrese
HP - H. Pakusch
HS - Hugh Stegman, USA
JK - Jeff Kelso, Sherwood, OR, USA
JM4 - John Maky, Parks, Arkansas, USA
JMM - JMM
MAD - Midatlantic dxer, USA
MH - Major heri, Central Europe
MS - Mark Slaten, Lapeer, MI, USA
PB - Paul Beaumont
RP - Rimantas Pleikys, Lithuania
SD - Simon Denneen, Sydney, Australia
SG - Simon Gunn, Nottingham, UK
SI - Sinager, London, UK
TS - Tom sevar, Frontenac, KS, USA

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